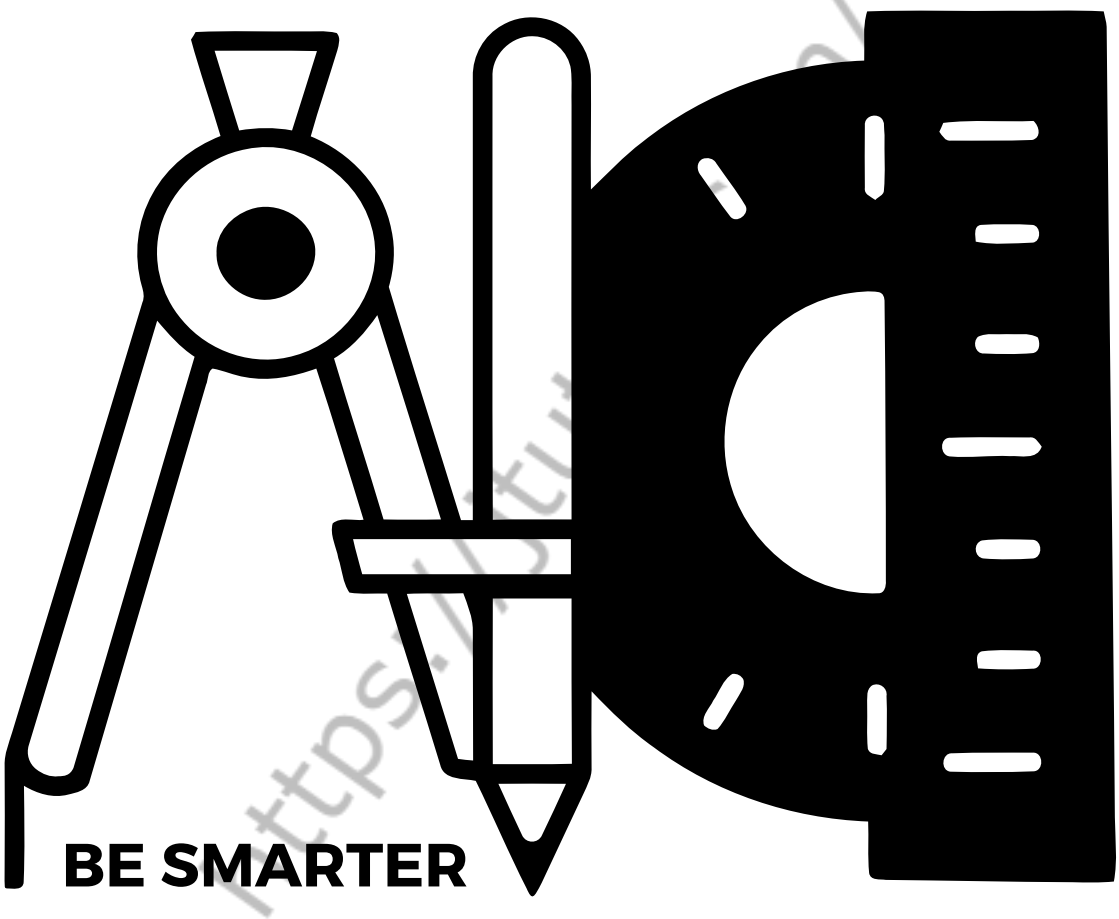
J-TUTES



YEAR 2 WORKBOOK

TERM 3 SYLLABUS

CHAPTER 1 - FRACTIONS

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{3}{11} + \frac{9}{11} =$

2) $\frac{1}{2} + \frac{1}{2} =$

3) $\frac{3}{4} + \frac{3}{4} =$

4) $\frac{1}{3} + \frac{1}{3} =$

5) $\frac{1}{5} + \frac{1}{5} =$

6) $\frac{5}{8} + \frac{1}{8} =$

7) $\frac{6}{12} + \frac{5}{12} =$

8) $\frac{6}{10} + \frac{4}{10} =$

9) $\frac{5}{7} + \frac{6}{7} =$

10) $\frac{3}{7} + \frac{6}{7} =$

11) $\frac{3}{6} + \frac{4}{6} =$

12) $\frac{1}{8} + \frac{7}{8} =$

13) $\frac{4}{11} + \frac{8}{11} =$

14) $\frac{1}{9} + \frac{3}{9} =$

15) $\frac{1}{4} + \frac{3}{4} =$

16) $\frac{7}{12} + \frac{8}{12} =$

17) $\frac{1}{3} + \frac{2}{3} =$

18) $\frac{1}{10} + \frac{4}{10} =$

19) $\frac{6}{9} + \frac{8}{9} =$

20) $\frac{5}{10} + \frac{1}{10} =$

21) $\frac{2}{8} + \frac{1}{8} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{14}{15} + \frac{10}{15} =$

2) $\frac{72}{100} + \frac{11}{100} =$

3) $\frac{8}{10} + \frac{2}{10} =$

4) $\frac{1}{3} + \frac{1}{3} =$

5) $\frac{1}{2} + \frac{1}{2} =$

6) $\frac{24}{55} + \frac{11}{55} =$

7) $\frac{1}{6} + \frac{5}{6} =$

8) $\frac{3}{5} + \frac{2}{5} =$

9) $\frac{2}{14} + \frac{1}{14} =$

10) $\frac{1}{12} + \frac{10}{12} =$

11) $\frac{1}{9} + \frac{1}{9} =$

12) $\frac{4}{15} + \frac{1}{15} =$

13) $\frac{5}{50} + \frac{39}{50} =$

14) $\frac{2}{8} + \frac{5}{8} =$

15) $\frac{19}{20} + \frac{15}{20} =$

16) $\frac{1}{4} + \frac{2}{4} =$

17) $\frac{11}{13} + \frac{12}{13} =$

18) $\frac{10}{11} + \frac{9}{11} =$

19) $\frac{5}{16} + \frac{15}{16} =$

20) $\frac{2}{7} + \frac{1}{7} =$

21) $\frac{6}{16} + \frac{8}{16} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{8}{12} + \frac{7}{12} =$

2) $\frac{99}{100} + \frac{28}{100} =$

3) $\frac{4}{11} + \frac{3}{11} =$

4) $\frac{11}{14} + \frac{9}{14} =$

5) $\frac{4}{6} + \frac{5}{6} =$

6) $\frac{9}{20} + \frac{5}{20} =$

7) $\frac{2}{7} + \frac{6}{7} =$

8) $\frac{2}{5} + \frac{3}{5} =$

9) $\frac{1}{9} + \frac{1}{9} =$

10) $\frac{14}{15} + \frac{6}{15} =$

11) $\frac{3}{10} + \frac{5}{10} =$

12) $\frac{1}{13} + \frac{7}{13} =$

13) $\frac{4}{8} + \frac{1}{8} =$

14) $\frac{22}{25} + \frac{19}{25} =$

15) $\frac{1}{3} + \frac{1}{3} =$

16) $\frac{1}{2} + \frac{1}{2} =$

17) $\frac{8}{16} + \frac{8}{16} =$

18) $\frac{16}{50} + \frac{33}{50} =$

19) $\frac{1}{12} + \frac{10}{12} =$

20) $\frac{6}{13} + \frac{12}{13} =$

21) $\frac{3}{4} + \frac{2}{4} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{1}{8} + \frac{2}{8} =$

2) $\frac{23}{25} + \frac{16}{25} =$

3) $\frac{2}{4} + \frac{3}{4} =$

4) $\frac{5}{10} + \frac{6}{10} =$

5) $\frac{19}{20} + \frac{4}{20} =$

6) $\frac{1}{2} + \frac{1}{2} =$

7) $\frac{1}{3} + \frac{1}{3} =$

8) $\frac{5}{9} + \frac{4}{9} =$

9) $\frac{8}{11} + \frac{2}{11} =$

10) $\frac{19}{50} + \frac{2}{50} =$

11) $\frac{6}{13} + \frac{7}{13} =$

12) $\frac{2}{15} + \frac{8}{15} =$

13) $\frac{4}{6} + \frac{4}{6} =$

14) $\frac{10}{16} + \frac{12}{16} =$

15) $\frac{1}{3} + \frac{1}{3} =$

16) $\frac{9}{14} + \frac{13}{14} =$

17) $\frac{9}{15} + \frac{14}{15} =$

18) $\frac{6}{12} + \frac{9}{12} =$

19) $\frac{8}{13} + \frac{11}{13} =$

20) $\frac{1}{3} + \frac{2}{3} =$

21) $\frac{4}{11} + \frac{6}{11} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{5}{25} + \frac{14}{25} =$

2) $\frac{9}{11} + \frac{6}{11} =$

3) $\frac{6}{20} + \frac{3}{20} =$

4) $\frac{1}{8} + \frac{5}{8} =$

5) $\frac{2}{25} + \frac{7}{25} =$

6) $\frac{2}{4} + \frac{2}{4} =$

7) $\frac{17}{20} + \frac{9}{20} =$

8) $\frac{1}{2} + \frac{1}{2} =$

9) $\frac{2}{3} + \frac{2}{3} =$

10) $\frac{4}{12} + \frac{8}{12} =$

11) $\frac{5}{6} + \frac{4}{6} =$

12) $\frac{5}{10} + \frac{2}{10} =$

13) $\frac{20}{50} + \frac{11}{50} =$

14) $\frac{11}{16} + \frac{12}{16} =$

15) $\frac{7}{9} + \frac{7}{9} =$

16) $\frac{10}{15} + \frac{7}{15} =$

17) $\frac{3}{5} + \frac{4}{5} =$

18) $\frac{3}{8} + \frac{4}{8} =$

19) $\frac{9}{13} + \frac{3}{13} =$

20) $\frac{49}{100} + \frac{51}{100} =$

21) $\frac{4}{7} + \frac{1}{7} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{2}{14} + \frac{6}{14} =$

2) $\frac{1}{2} + \frac{1}{2} =$

3) $\frac{3}{20} + \frac{1}{20} =$

4) $\frac{8}{12} + \frac{3}{12} =$

5) $\frac{4}{7} + \frac{4}{7} =$

6) $\frac{8}{13} + \frac{5}{13} =$

7) $\frac{1}{14} + \frac{9}{14} =$

8) $\frac{3}{25} + \frac{3}{25} =$

9) $\frac{4}{9} + \frac{3}{9} =$

10) $\frac{12}{15} + \frac{4}{15} =$

11) $\frac{9}{16} + \frac{2}{16} =$

12) $\frac{1}{3} + \frac{2}{3} =$

13) $\frac{1}{8} + \frac{5}{8} =$

14) $\frac{7}{10} + \frac{7}{10} =$

15) $\frac{7}{9} + \frac{7}{9} =$

16) $\frac{1}{6} + \frac{5}{6} =$

17) $\frac{2}{4} + \frac{1}{4} =$

18) $\frac{8}{11} + \frac{7}{11} =$

19) $\frac{4}{50} + \frac{33}{50} =$

20) $\frac{8}{100} + \frac{56}{100} =$

21) $\frac{13}{15} + \frac{2}{15} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{9}{10} + \frac{7}{10} =$

2) $\frac{1}{3} + \frac{1}{3} =$

3) $\frac{3}{8} + \frac{6}{8} =$

4) $\frac{8}{11} + \frac{7}{11} =$

5) $\frac{9}{12} + \frac{8}{12} =$

6) $\frac{1}{4} + \frac{1}{4} =$

7) $\frac{6}{9} + \frac{7}{9} =$

8) $\frac{1}{5} + \frac{1}{5} =$

9) $\frac{2}{7} + \frac{6}{7} =$

10) $\frac{1}{2} + \frac{1}{2} =$

11) $\frac{1}{6} + \frac{4}{6} =$

12) $\frac{4}{9} + \frac{8}{9} =$

13) $\frac{1}{5} + \frac{4}{5} =$

14) $\frac{3}{4} + \frac{1}{4} =$

15) $\frac{6}{10} + \frac{9}{10} =$

16) $\frac{2}{6} + \frac{2}{6} =$

17) $\frac{5}{7} + \frac{1}{7} =$

18) $\frac{2}{3} + \frac{2}{3} =$

19) $\frac{8}{11} + \frac{5}{11} =$

20) $\frac{10}{12} + \frac{1}{12} =$

21) $\frac{5}{8} + \frac{6}{8} =$

CHAPTER 1 - FRACTIONS

Adding fractions (like denominators)

Find the sum.

1) $\frac{7}{11} + \frac{7}{11} =$

2) $\frac{1}{5} + \frac{2}{5} =$

3) $\frac{1}{7} + \frac{1}{7} =$

4) $\frac{2}{3} + \frac{2}{3} =$

5) $\frac{7}{10} + \frac{1}{10} =$

6) $\frac{1}{9} + \frac{3}{9} =$

7) $\frac{2}{4} + \frac{1}{4} =$

8) $\frac{1}{6} + \frac{3}{6} =$

9) $\frac{6}{8} + \frac{5}{8} =$

10) $\frac{1}{12} + \frac{10}{12} =$

11) $\frac{1}{2} + \frac{1}{2} =$

12) $\frac{2}{3} + \frac{1}{3} =$

13) $\frac{1}{4} + \frac{3}{4} =$

14) $\frac{4}{12} + \frac{7}{12} =$

15) $\frac{1}{9} + \frac{2}{9} =$

16) $\frac{1}{6} + \frac{5}{6} =$

17) $\frac{1}{11} + \frac{7}{11} =$

18) $\frac{3}{7} + \frac{4}{7} =$

19) $\frac{1}{10} + \frac{4}{10} =$

20) $\frac{7}{8} + \frac{3}{8} =$

21) $\frac{3}{5} + \frac{1}{5} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{4}{10} - \frac{2}{10} =$

2) $\frac{2}{3} - \frac{1}{3} =$

3) $\frac{5}{8} - \frac{3}{8} =$

4) $\frac{3}{4} - \frac{1}{4} =$

5) $\frac{4}{7} - \frac{2}{7} =$

6) $\frac{3}{5} - \frac{2}{5} =$

7) $\frac{7}{12} - \frac{4}{12} =$

8) $\frac{2}{6} - \frac{1}{6} =$

9) $\frac{4}{5} - \frac{1}{5} =$

10) $\frac{7}{8} - \frac{3}{8} =$

11) $\frac{3}{4} - \frac{2}{4} =$

12) $\frac{6}{9} - \frac{1}{9} =$

13) $\frac{6}{7} - \frac{1}{7} =$

14) $\frac{7}{10} - \frac{6}{10} =$

15) $\frac{9}{11} - \frac{7}{11} =$

16) $\frac{10}{12} - \frac{3}{12} =$

17) $\frac{8}{10} - \frac{4}{10} =$

18) $\frac{10}{12} - \frac{8}{12} =$

19) $\frac{6}{8} - \frac{3}{8} =$

20) $\frac{6}{11} - \frac{2}{11} =$

21) $\frac{3}{6} - \frac{1}{6} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{10}{11} - \frac{9}{11} =$

2) $\frac{8}{9} - \frac{5}{9} =$

3) $\frac{6}{7} - \frac{4}{7} =$

4) $\frac{5}{6} - \frac{1}{6} =$

5) $\frac{3}{8} - \frac{1}{8} =$

6) $\frac{3}{5} - \frac{1}{5} =$

7) $\frac{3}{4} - \frac{2}{4} =$

8) $\frac{4}{12} - \frac{2}{12} =$

9) $\frac{4}{5} - \frac{2}{5} =$

10) $\frac{2}{3} - \frac{1}{3} =$

11) $\frac{5}{7} - \frac{3}{7} =$

12) $\frac{7}{8} - \frac{5}{8} =$

13) $\frac{11}{12} - \frac{10}{12} =$

14) $\frac{6}{9} - \frac{4}{9} =$

15) $\frac{3}{6} - \frac{1}{6} =$

16) $\frac{3}{4} - \frac{1}{4} =$

17) $\frac{6}{11} - \frac{5}{11} =$

18) $\frac{4}{10} - \frac{2}{10} =$

19) $\frac{8}{12} - \frac{6}{12} =$

20) $\frac{8}{9} - \frac{1}{9} =$

21) $\frac{10}{11} - \frac{7}{11} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{10}{11} - \frac{6}{11} =$

2) $\frac{3}{4} - \frac{2}{4} =$

3) $\frac{8}{11} - \frac{4}{11} =$

4) $\frac{8}{10} - \frac{4}{10} =$

5) $\frac{3}{6} - \frac{2}{6} =$

6) $\frac{2}{3} - \frac{1}{3} =$

7) $\frac{6}{9} - \frac{5}{9} =$

8) $\frac{5}{7} - \frac{2}{7} =$

9) $\frac{4}{8} - \frac{1}{8} =$

10) $\frac{4}{5} - \frac{2}{5} =$

11) $\frac{5}{12} - \frac{2}{12} =$

12) $\frac{11}{12} - \frac{5}{12} =$

13) $\frac{6}{7} - \frac{3}{7} =$

14) $\frac{2}{4} - \frac{1}{4} =$

15) $\frac{4}{5} - \frac{3}{5} =$

16) $\frac{9}{11} - \frac{8}{11} =$

17) $\frac{8}{9} - \frac{6}{9} =$

18) $\frac{4}{10} - \frac{3}{10} =$

19) $\frac{5}{6} - \frac{1}{6} =$

20) $\frac{7}{10} - \frac{6}{10} =$

21) $\frac{6}{7} - \frac{5}{7} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{2}{3} - \frac{1}{3} =$

2) $\frac{6}{8} - \frac{5}{8} =$

3) $\frac{4}{5} - \frac{3}{5} =$

4) $\frac{6}{7} - \frac{5}{7} =$

5) $\frac{2}{4} - \frac{1}{4} =$

6) $\frac{7}{12} - \frac{6}{12} =$

7) $\frac{5}{6} - \frac{4}{6} =$

8) $\frac{7}{11} - \frac{4}{11} =$

9) $\frac{5}{7} - \frac{2}{7} =$

10) $\frac{9}{10} - \frac{8}{10} =$

11) $\frac{4}{6} - \frac{3}{6} =$

12) $\frac{5}{12} - \frac{2}{12} =$

13) $\frac{3}{4} - \frac{2}{4} =$

14) $\frac{7}{11} - \frac{6}{11} =$

15) $\frac{5}{9} - \frac{2}{9} =$

16) $\frac{5}{8} - \frac{4}{8} =$

17) $\frac{6}{10} - \frac{3}{10} =$

18) $\frac{3}{5} - \frac{2}{5} =$

19) $\frac{4}{6} - \frac{2}{6} =$

20) $\frac{6}{9} - \frac{3}{9} =$

21) $\frac{11}{12} - \frac{7}{12} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{4}{5} - \frac{1}{5} =$

2) $\frac{5}{6} - \frac{3}{6} =$

3) $\frac{6}{7} - \frac{5}{7} =$

4) $\frac{11}{12} - \frac{10}{12} =$

5) $\frac{6}{7} - \frac{1}{7} =$

6) $\frac{8}{10} - \frac{6}{10} =$

7) $\frac{10}{12} - \frac{6}{12} =$

8) $\frac{8}{9} - \frac{1}{9} =$

9) $\frac{3}{5} - \frac{2}{5} =$

10) $\frac{6}{8} - \frac{5}{8} =$

11) $\frac{9}{11} - \frac{8}{11} =$

12) $\frac{2}{3} - \frac{1}{3} =$

13) $\frac{3}{4} - \frac{2}{4} =$

14) $\frac{3}{4} - \frac{1}{4} =$

15) $\frac{6}{7} - \frac{2}{7} =$

16) $\frac{5}{11} - \frac{2}{11} =$

17) $\frac{8}{9} - \frac{5}{9} =$

18) $\frac{3}{6} - \frac{2}{6} =$

19) $\frac{6}{8} - \frac{2}{8} =$

20) $\frac{10}{12} - \frac{7}{12} =$

21) $\frac{9}{10} - \frac{7}{10} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{10}{12} - \frac{6}{12} =$

2) $\frac{2}{4} - \frac{1}{4} =$

3) $\frac{4}{5} - \frac{3}{5} =$

4) $\frac{7}{8} - \frac{6}{8} =$

5) $\frac{2}{3} - \frac{1}{3} =$

6) $\frac{6}{9} - \frac{4}{9} =$

7) $\frac{5}{6} - \frac{4}{6} =$

8) $\frac{9}{10} - \frac{8}{10} =$

9) $\frac{7}{11} - \frac{1}{11} =$

10) $\frac{6}{7} - \frac{3}{7} =$

11) $\frac{4}{7} - \frac{3}{7} =$

12) $\frac{2}{6} - \frac{1}{6} =$

13) $\frac{8}{10} - \frac{1}{10} =$

14) $\frac{4}{9} - \frac{2}{9} =$

15) $\frac{10}{11} - \frac{7}{11} =$

16) $\frac{3}{4} - \frac{2}{4} =$

17) $\frac{3}{5} - \frac{1}{5} =$

18) $\frac{2}{8} - \frac{1}{8} =$

19) $\frac{6}{7} - \frac{5}{7} =$

20) $\frac{4}{11} - \frac{3}{11} =$

21) $\frac{5}{6} - \frac{3}{6} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{10}{12} - \frac{3}{12} =$

2) $\frac{3}{4} - \frac{2}{4} =$

3) $\frac{4}{6} - \frac{3}{6} =$

4) $\frac{6}{10} - \frac{5}{10} =$

5) $\frac{7}{11} - \frac{2}{11} =$

6) $\frac{10}{12} - \frac{4}{12} =$

7) $\frac{8}{9} - \frac{7}{9} =$

8) $\frac{4}{5} - \frac{3}{5} =$

9) $\frac{7}{8} - \frac{6}{8} =$

10) $\frac{2}{3} - \frac{1}{3} =$

11) $\frac{5}{7} - \frac{3}{7} =$

12) $\frac{4}{6} - \frac{1}{6} =$

13) $\frac{7}{9} - \frac{5}{9} =$

14) $\frac{8}{12} - \frac{6}{12} =$

15) $\frac{6}{11} - \frac{4}{11} =$

16) $\frac{4}{10} - \frac{3}{10} =$

17) $\frac{3}{4} - \frac{1}{4} =$

18) $\frac{2}{5} - \frac{1}{5} =$

19) $\frac{6}{7} - \frac{4}{7} =$

20) $\frac{5}{6} - \frac{2}{6} =$

21) $\frac{7}{10} - \frac{2}{10} =$

CHAPTER 1 - FRACTIONS

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{7}{12} - \frac{6}{12} =$

2) $\frac{3}{4} - \frac{2}{4} =$

3) $\frac{4}{6} - \frac{3}{6} =$

4) $\frac{3}{4} - \frac{1}{4} =$

5) $\frac{5}{9} - \frac{2}{9} =$

6) $\frac{4}{8} - \frac{2}{8} =$

7) $\frac{2}{3} - \frac{1}{3} =$

8) $\frac{4}{5} - \frac{3}{5} =$

9) $\frac{9}{12} - \frac{8}{12} =$

10) $\frac{2}{4} - \frac{1}{4} =$

11) $\frac{7}{10} - \frac{6}{10} =$

12) $\frac{8}{9} - \frac{5}{9} =$

13) $\frac{4}{6} - \frac{2}{6} =$

14) $\frac{6}{8} - \frac{4}{8} =$

15) $\frac{3}{5} - \frac{2}{5} =$

16) $\frac{6}{7} - \frac{1}{7} =$

17) $\frac{7}{11} - \frac{5}{11} =$

18) $\frac{5}{6} - \frac{3}{6} =$

19) $\frac{8}{9} - \frac{4}{9} =$

20) $\frac{6}{8} - \frac{5}{8} =$

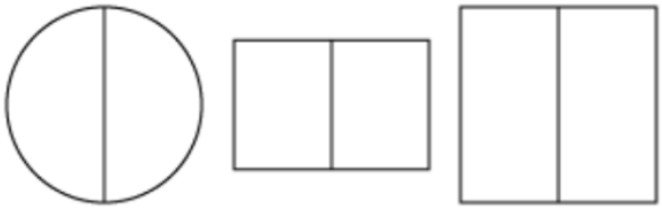
21) $\frac{9}{12} - \frac{2}{12} =$

CHAPTER 2 -
FRACTIONS (ADD & SUBTRACT)

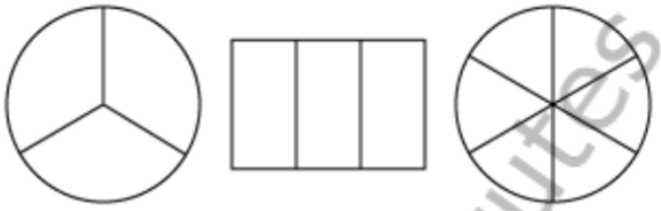
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Halves, Thirds, and Fourths

1) Shade in half of each of the shapes shown below.

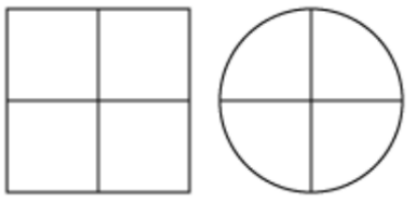


2) Shade in a third of each of the shapes shown below.



3) Shade in a quarter of each of the shapes.

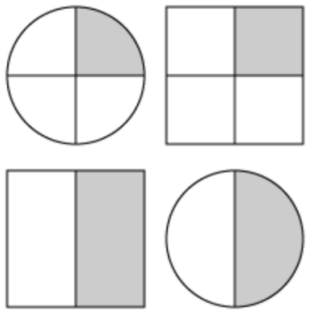
4) Shade four fourths of each shape below.



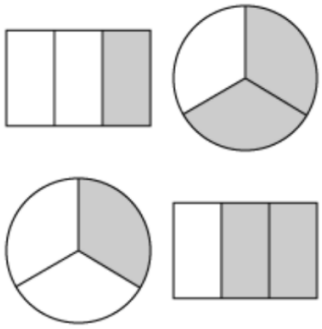
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Halves, Thirds, and Fourths

5) Circle the shape(s) with one-half filled.

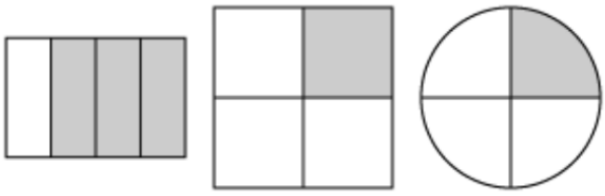


6) Circle the shape(s) with one-third filled.



7) Circle the two shapes with equally shaded parts.

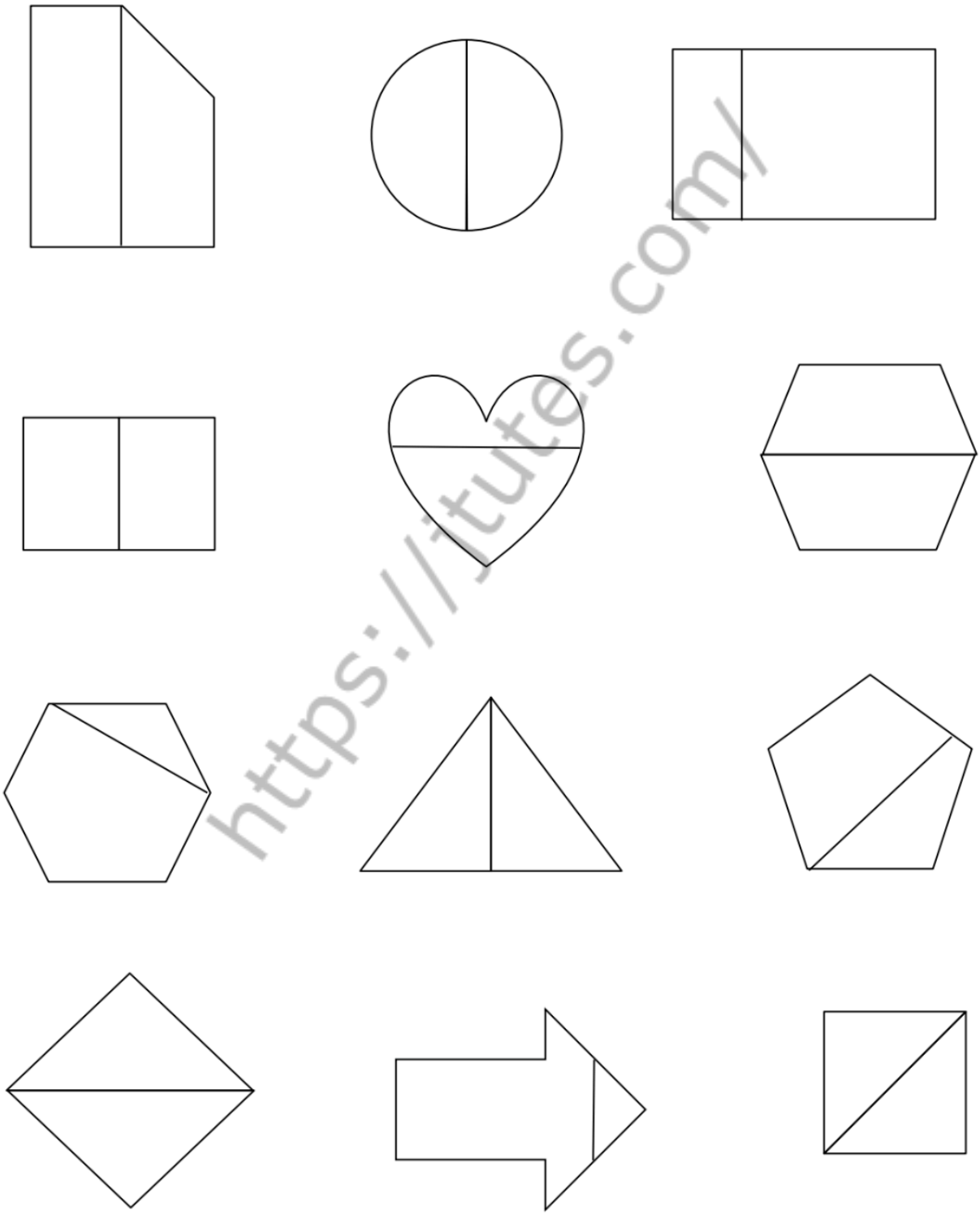
8) Circle the two shapes with equally shaded parts.



CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify halves

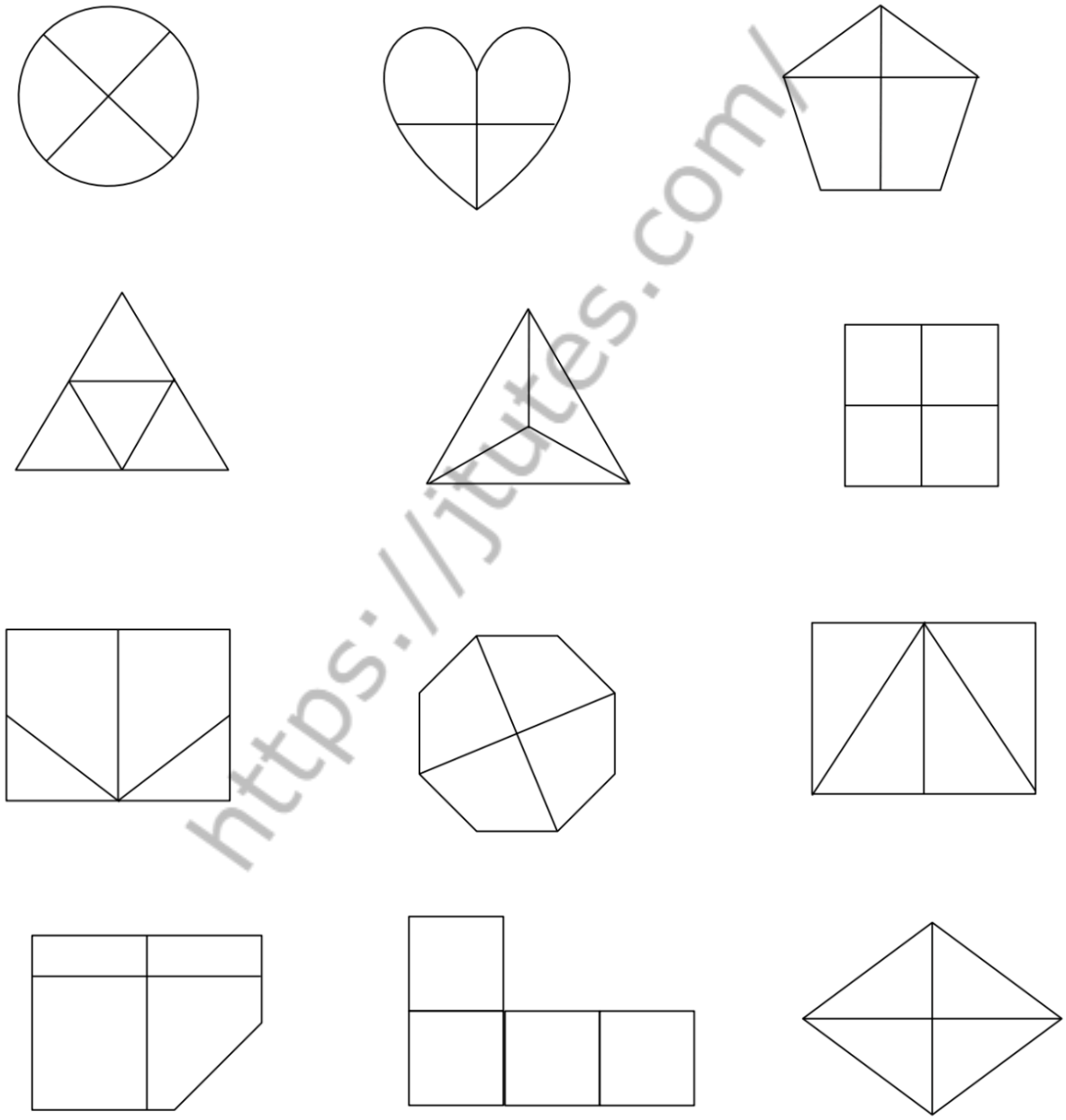
Color half of each shape which shows two equal parts.



CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify quarters

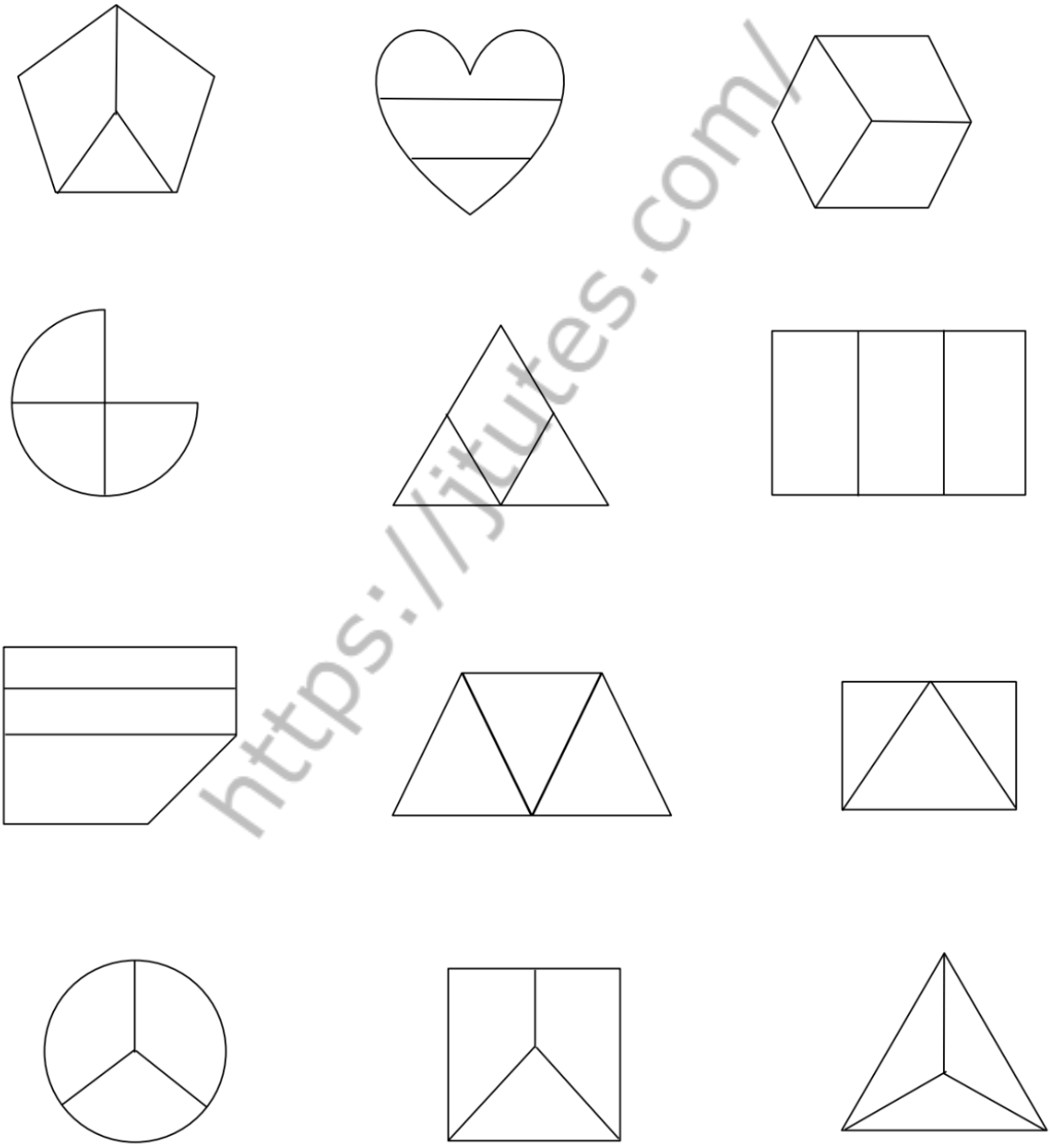
Color the shapes that are divided into quarters (4 equal parts).



CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify thirds

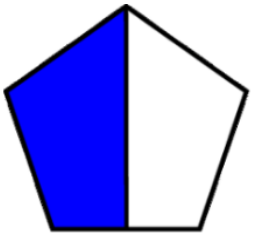
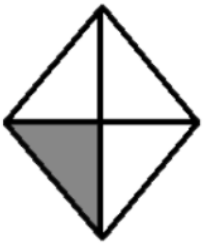
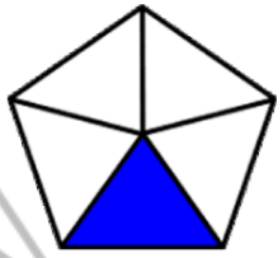
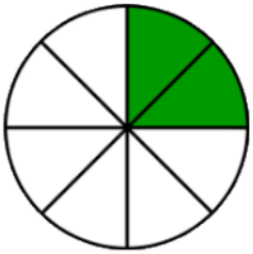
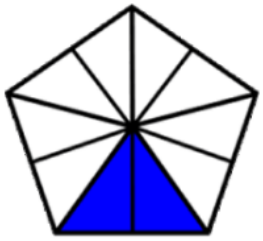
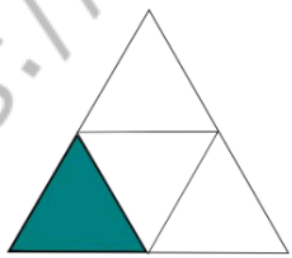
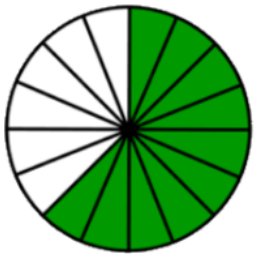
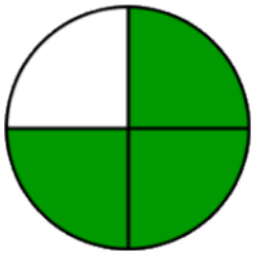
Color the shapes that are divided into thirds (3 equal parts).



CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

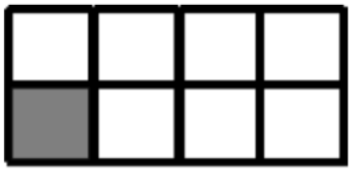
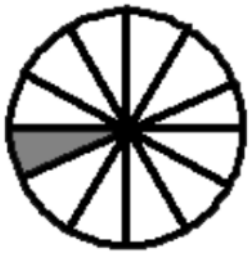
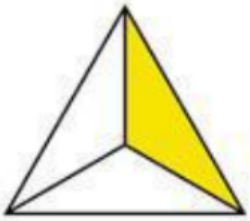
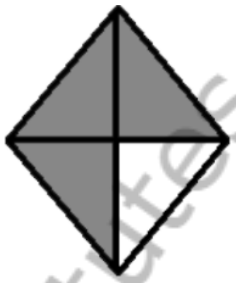
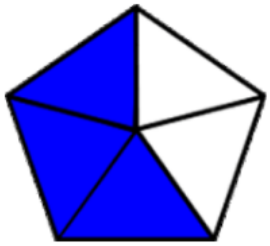
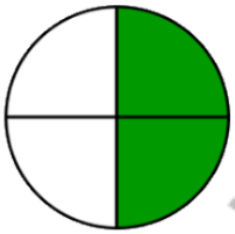
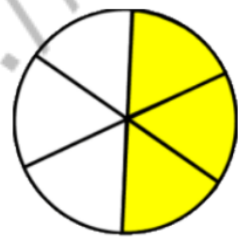
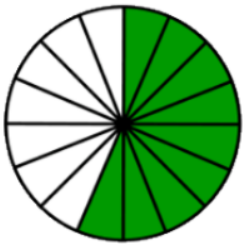
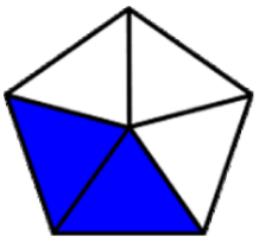
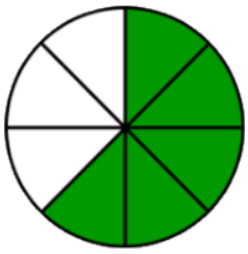
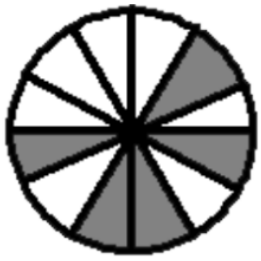
What fraction of the shape is shaded? Circle the correct answer.

		
$\frac{1}{2}$ $\frac{2}{3}$ $\frac{2}{1}$	$\frac{4}{3}$ $\frac{1}{4}$ $\frac{3}{4}$	$\frac{1}{5}$ $\frac{5}{1}$ $\frac{4}{5}$
		
$\frac{1}{9}$ $\frac{2}{6}$ $\frac{2}{8}$	$\frac{9}{12}$ $\frac{3}{12}$ $\frac{2}{12}$	$\frac{10}{2}$ $\frac{2}{10}$ $\frac{2}{8}$
		
$\frac{4}{6}$ $\frac{2}{4}$ $\frac{6}{4}$	$\frac{4}{1}$ $\frac{1}{3}$ $\frac{1}{4}$	$\frac{6}{12}$ $\frac{16}{10}$ $\frac{10}{16}$
		
$\frac{4}{8}$ $\frac{8}{4}$ $\frac{3}{8}$	$\frac{1}{4}$ $\frac{4}{3}$ $\frac{3}{4}$	$\frac{6}{8}$ $\frac{2}{8}$ $\frac{8}{6}$

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

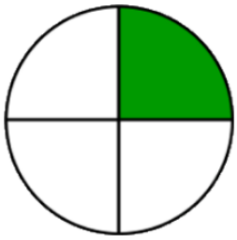
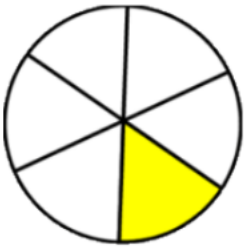
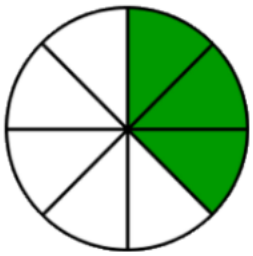
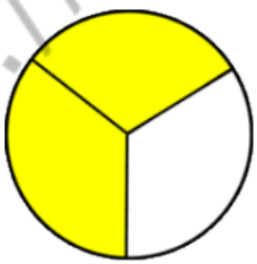
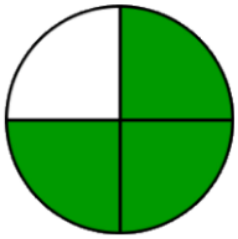
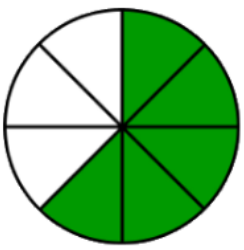
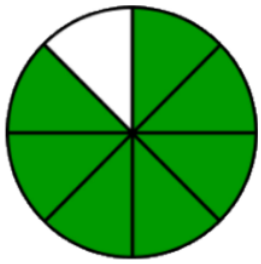
What fraction of the shape is shaded? Circle the correct answer.

		
$\frac{8}{1}$ $\frac{8}{7}$ $\frac{1}{8}$	$\frac{1}{12}$ $\frac{12}{1}$ $\frac{10}{11}$	$\frac{1}{9}$ $\frac{1}{10}$ $\frac{10}{1}$
		
$\frac{3}{1}$ $\frac{1}{3}$ $\frac{1}{2}$	$\frac{4}{3}$ $\frac{1}{4}$ $\frac{3}{4}$	$\frac{2}{3}$ $\frac{5}{3}$ $\frac{3}{5}$
		
$\frac{2}{4}$ $\frac{1}{4}$ $\frac{4}{2}$	$\frac{6}{3}$ $\frac{3}{6}$ $\frac{2}{3}$	$\frac{7}{16}$ $\frac{16}{9}$ $\frac{9}{16}$
		
$\frac{3}{5}$ $\frac{2}{5}$ $\frac{5}{2}$	$\frac{5}{8}$ $\frac{8}{5}$ $\frac{3}{5}$	$\frac{12}{5}$ $\frac{5}{7}$ $\frac{5}{12}$

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

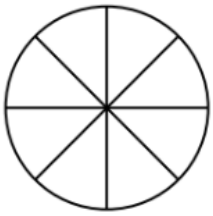
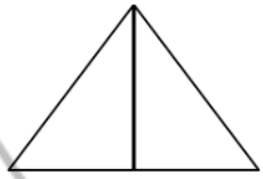
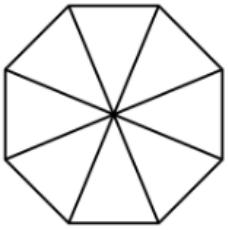
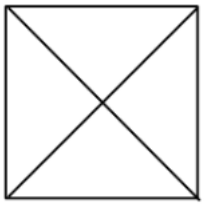
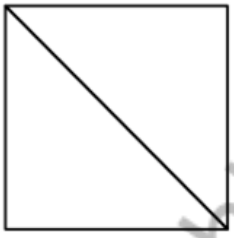
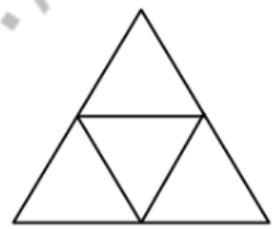
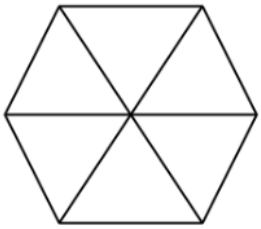
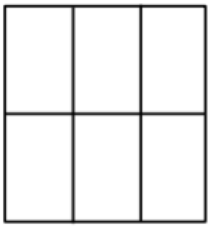
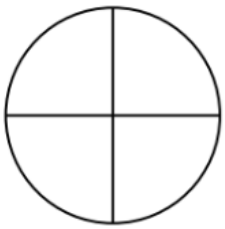
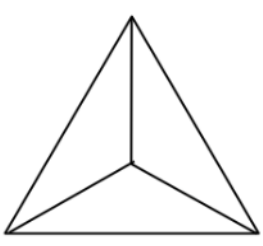
What fraction of the shape is shaded? Circle the correct answer.

		
$\frac{1}{6}$ $\frac{8}{1}$ $\frac{1}{8}$	$\frac{4}{1}$ $\frac{1}{8}$ $\frac{1}{4}$	$\frac{1}{2}$ $\frac{1}{6}$ $\frac{1}{4}$
		
$\frac{1}{6}$ $\frac{6}{1}$ $\frac{1}{4}$	$\frac{1}{16}$ $\frac{1}{8}$ $\frac{16}{1}$	$\frac{3}{6}$ $\frac{3}{8}$ $\frac{3}{4}$
		
$\frac{5}{16}$ $\frac{16}{5}$ $\frac{5}{8}$	$\frac{3}{2}$ $\frac{2}{3}$ $\frac{2}{4}$	$\frac{3}{2}$ $\frac{3}{4}$ $\frac{4}{3}$
		
$\frac{5}{16}$ $\frac{8}{5}$ $\frac{5}{8}$	$\frac{7}{8}$ $\frac{7}{16}$ $\frac{16}{7}$	$\frac{8}{7}$ $\frac{7}{16}$ $\frac{7}{8}$

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify halves, thirds, quarters, sixths and eighths

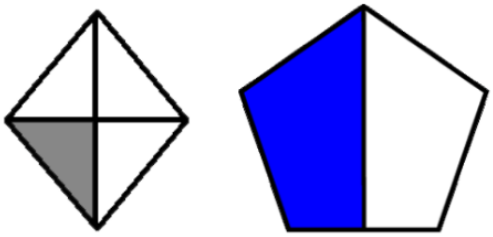
Write “Halves”, “Thirds”, “Quarters”, “Sixths” or “Eighths” under each shape.

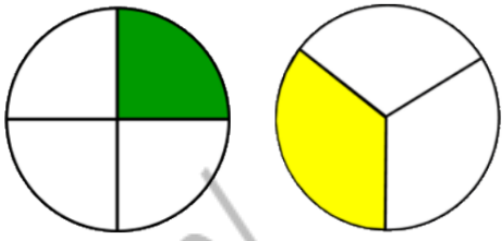
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

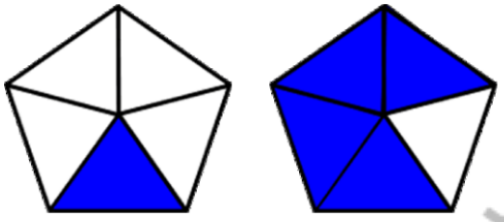
Circle the shape that shows $\frac{1}{2}$



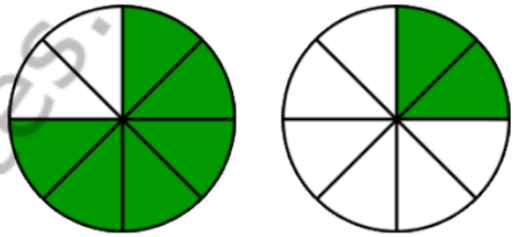
Circle the shape that shows $\frac{1}{4}$



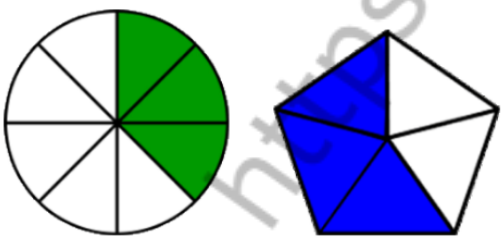
Circle the shape that shows $\frac{4}{5}$



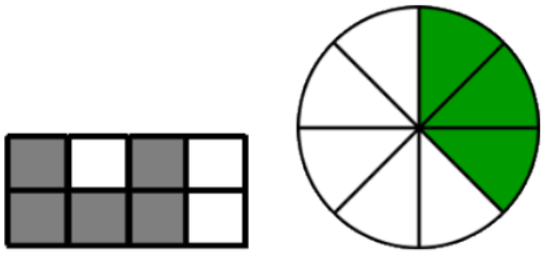
Circle the shape that shows $\frac{2}{8}$



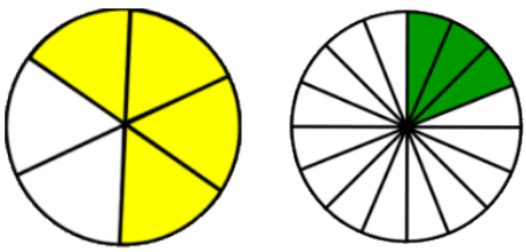
Circle the shape that shows $\frac{3}{5}$



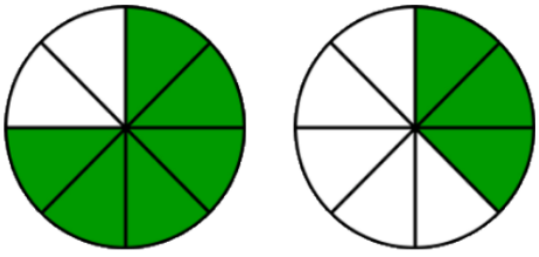
Circle the shape that shows $\frac{5}{8}$



Circle the shape that shows $\frac{2}{3}$



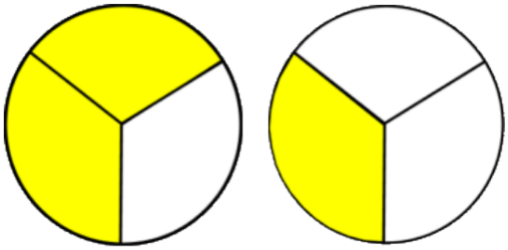
Circle the shape that shows $\frac{3}{4}$



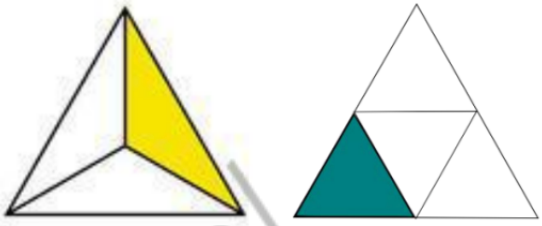
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

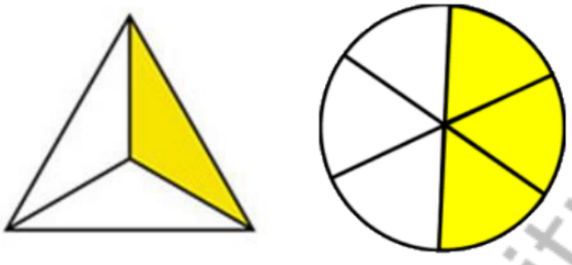
Circle the shape that shows $\frac{2}{3}$



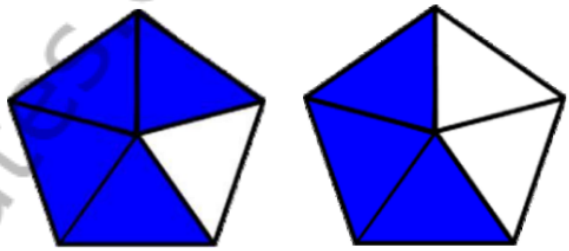
Circle the shape that shows $\frac{1}{4}$



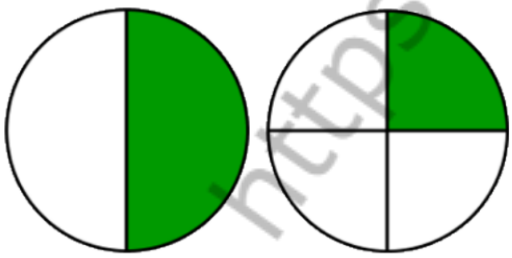
Circle the shape that shows $\frac{1}{3}$



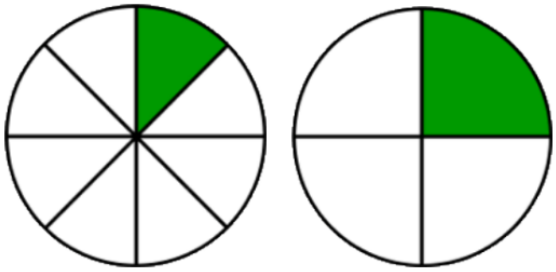
Circle the shape that shows $\frac{3}{5}$



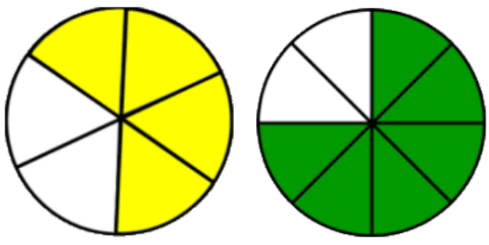
Circle the shape that shows $\frac{1}{2}$



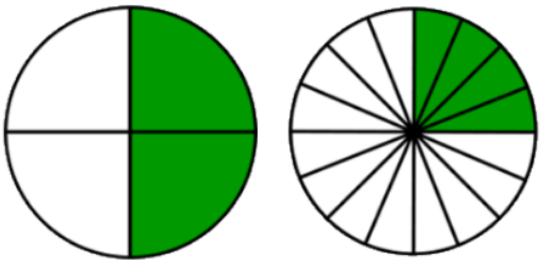
Circle the shape that shows $\frac{1}{4}$



Circle the shape that shows $\frac{2}{3}$



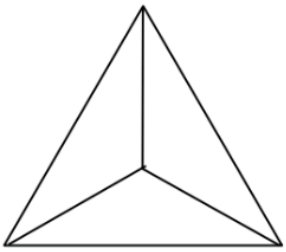
Circle the shape that shows $\frac{1}{4}$

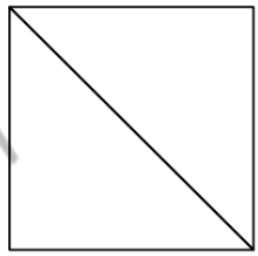


CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

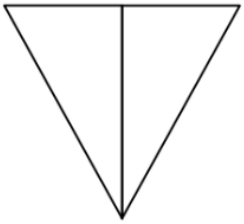
Identify halves, thirds and quarters

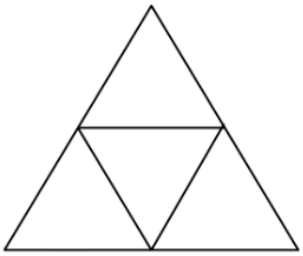
How is each shape divided? Draw lines to the correct description.



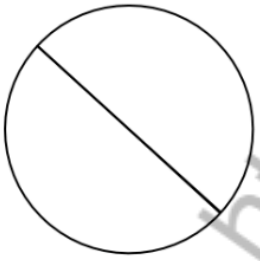


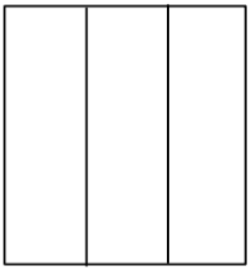
Halves



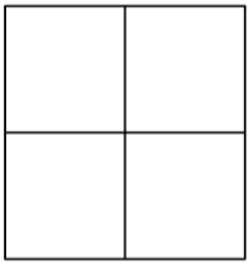


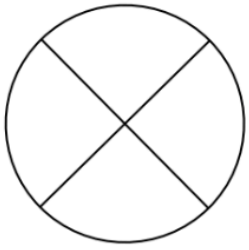
Thirds





Quarters





CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Reading fractions

Match the fractions to their word forms.

Two thirds	$\frac{1}{8}$
One fifth	$\frac{3}{6}$
One eighth	$\frac{2}{3}$
Three sixths	$\frac{7}{8}$
Seven eighths	$\frac{2}{7}$
Two sevenths	$\frac{1}{5}$
Three quarters	$\frac{3}{4}$

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Reading fractions

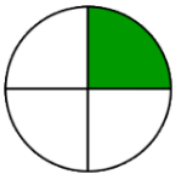
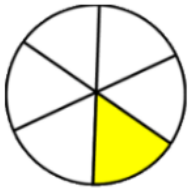
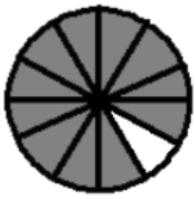
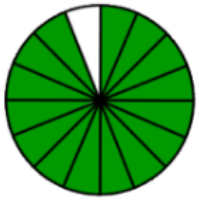
Match the fractions to their word forms.

One half	$\frac{1}{8}$
One quarter	$\frac{5}{6}$
One eighth	$\frac{1}{2}$
Three quarters	$\frac{1}{4}$
Five sixths	$\frac{3}{4}$
Three sevenths	$\frac{9}{10}$
Nine tenths	$\frac{3}{7}$

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify numerators and denominators

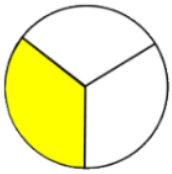
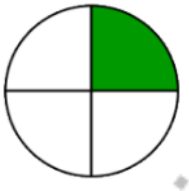
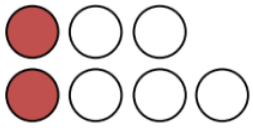
Fill in the table.

Fraction		Numerator	Denominator
$\frac{1}{4}$			
$\frac{1}{6}$			
$\frac{1}{12}$			
$\frac{3}{5}$			
$\frac{6}{8}$			
$\frac{11}{12}$			
$\frac{15}{16}$			

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify numerators and denominators

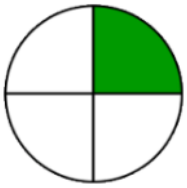
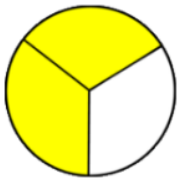
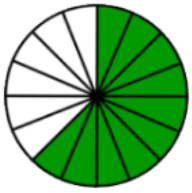
Fill in the table.

Fraction		Numerator	Denominator
$\frac{1}{2}$			
$\frac{1}{3}$			
$\frac{1}{4}$			
$\frac{2}{5}$			
$\frac{5}{6}$			
$\frac{3}{8}$			
$\frac{2}{7}$			

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Writing fractions from numerators and denominators

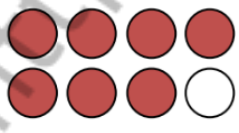
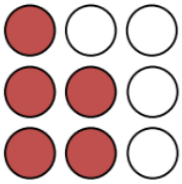
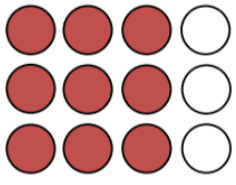
Write the fractions in the first column.

Fraction		Numerator	Denominator
		2	5
		1	4
		4	6
		3	8
		2	10
		2	3
		10	16

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Writing fractions from numerators and denominators

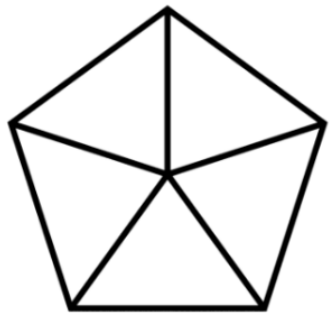
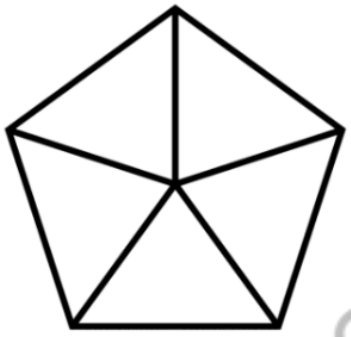
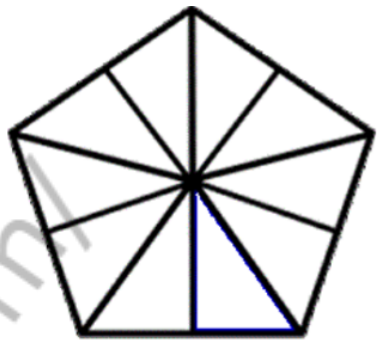
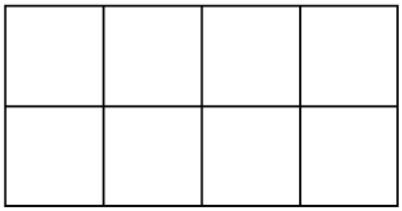
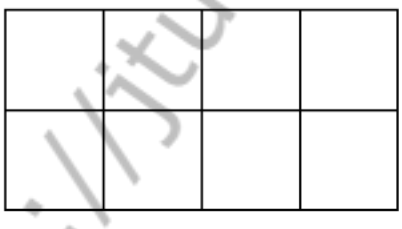
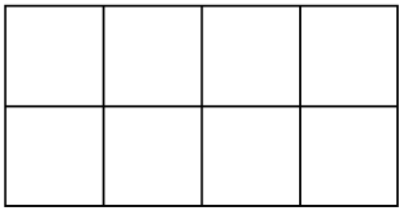
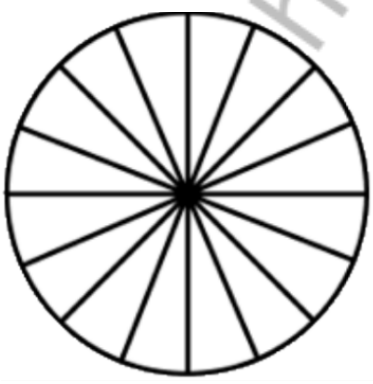
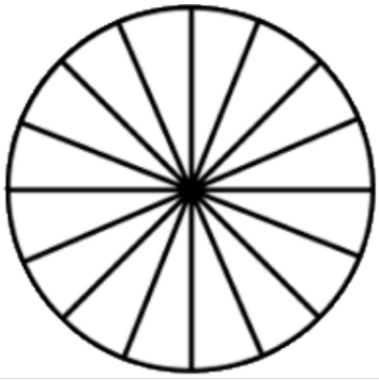
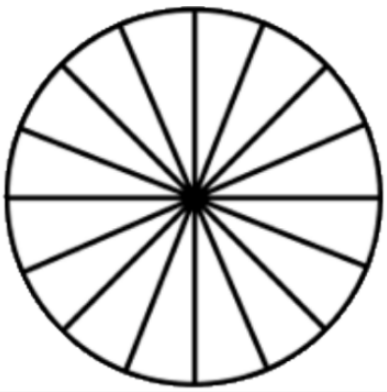
Write the fractions in the first column.

Fraction		Numerator	Denominator
		1	2
		2	3
		3	4
		4	5
		7	8
		5	9
		9	12

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

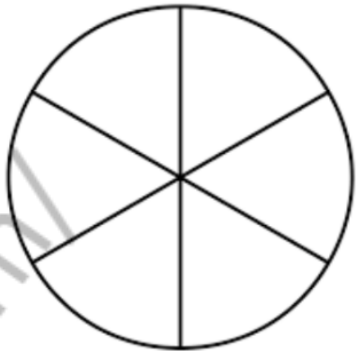
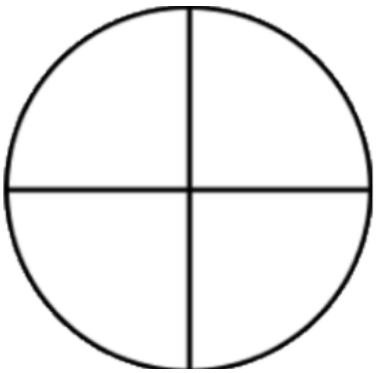
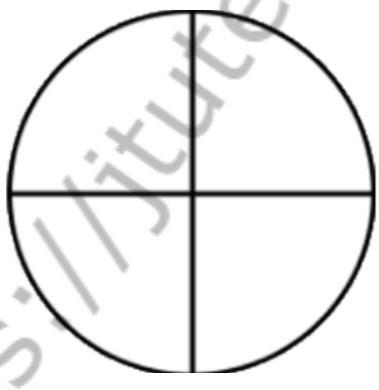
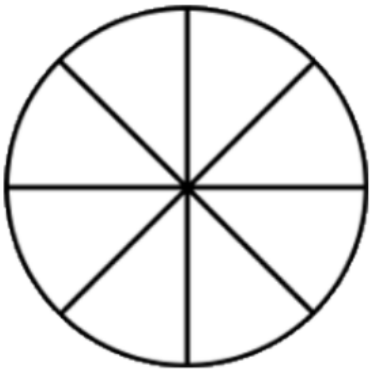
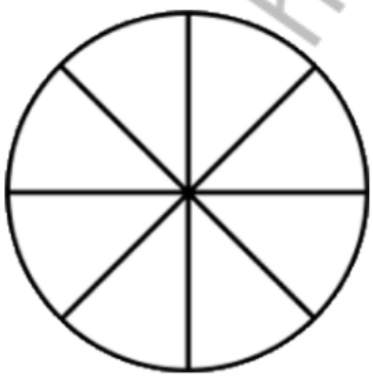
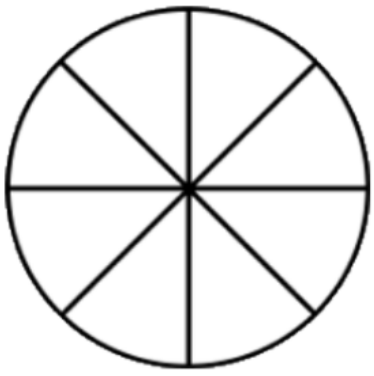
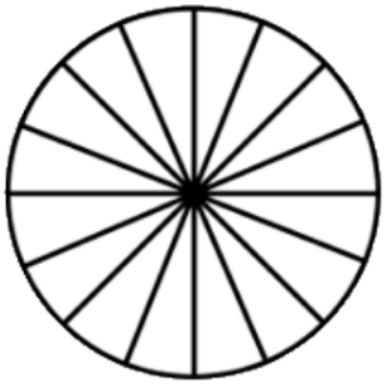
Color the shapes according to the fractions below each shape.

		
$\frac{1}{5}$	$\frac{4}{5}$	$\frac{2}{5}$
		
$\frac{3}{8}$	$\frac{6}{8}$	$\frac{1}{4}$
		
$\frac{5}{16}$	$\frac{9}{16}$	$\frac{3}{4}$

CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Identify fractions

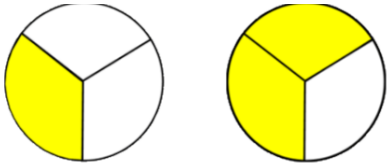
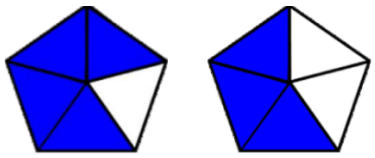
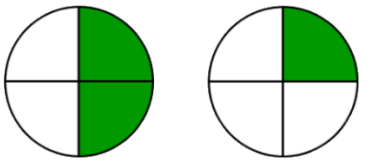
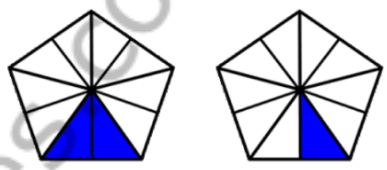
Color the shapes according to the fractions below each shape.

		
$\frac{1}{3}$	$\frac{2}{3}$	$\frac{2}{3}$
		
$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{4}$
		
$\frac{1}{8}$	$\frac{3}{8}$	$\frac{5}{8}$

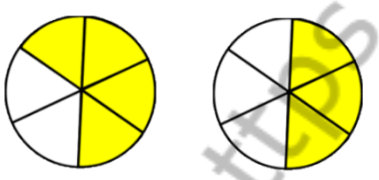
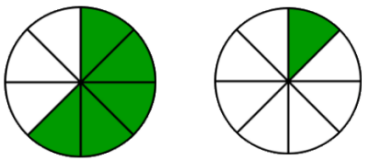
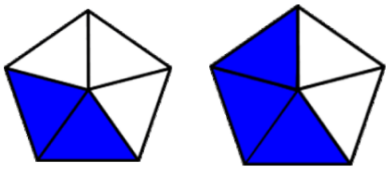
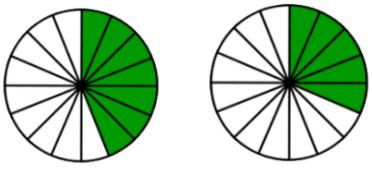
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Compare fractions (same denominators)

Circle the fractions that are **GREATER.**

 $\frac{1}{3}$ $\frac{2}{3}$	 $\frac{4}{5}$ $\frac{3}{5}$
 $\frac{2}{4}$ $\frac{1}{4}$	 $\frac{2}{10}$ $\frac{1}{10}$

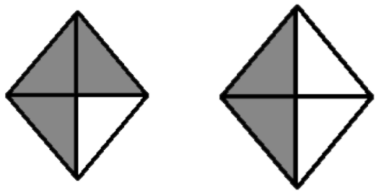
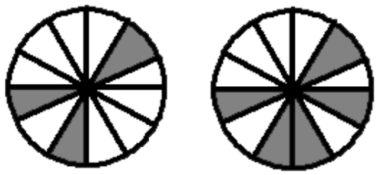
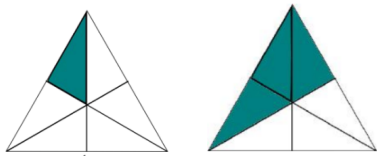
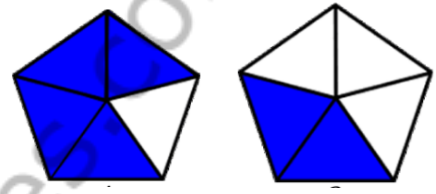
Circle the fractions that are **SMALLER.**

 $\frac{4}{6}$ $\frac{3}{6}$	 $\frac{1}{3}$ $\frac{1}{8}$
 $\frac{2}{5}$ $\frac{3}{5}$	 $\frac{7}{16}$ $\frac{5}{16}$

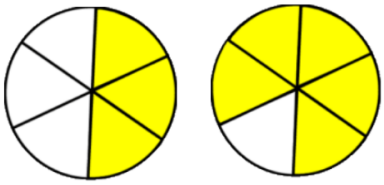
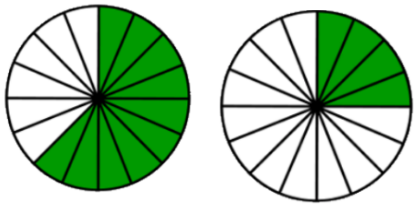
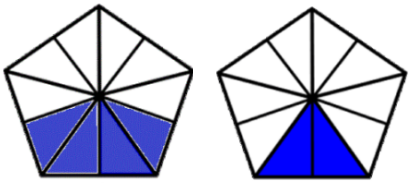
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Compare fractions (same denominators)

Circle the fractions that are **GREATER.**

 $\frac{3}{4}$ $\frac{2}{4}$	 $\frac{3}{12}$ $\frac{5}{12}$
 $\frac{1}{6}$ $\frac{3}{6}$	 $\frac{4}{5}$ $\frac{2}{5}$

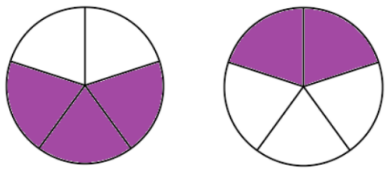
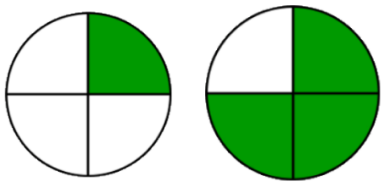
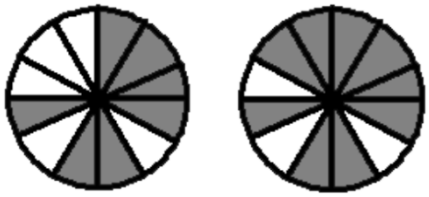
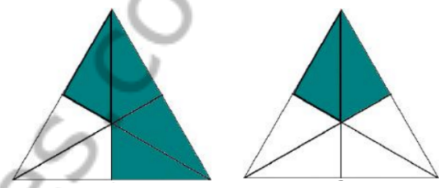
Circle the fractions that are **SMALLER.**

 $\frac{3}{8}$ $\frac{2}{8}$	 $\frac{3}{6}$ $\frac{5}{6}$
 $\frac{10}{16}$ $\frac{4}{16}$	 $\frac{4}{10}$ $\frac{2}{10}$

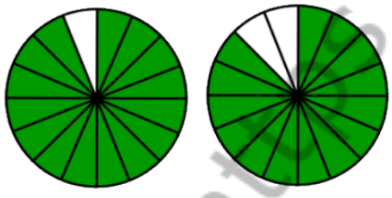
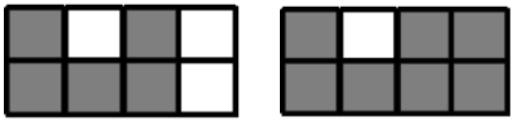
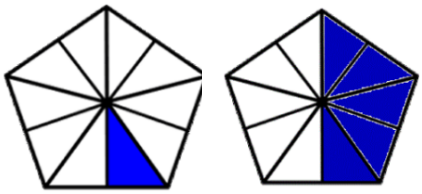
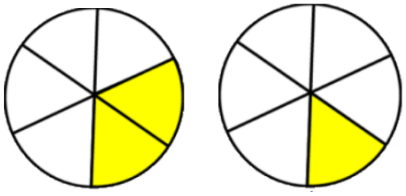
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Compare fractions (same denominators)

Circle the fractions that are **GREATER.**

 $\frac{3}{5}$ $\frac{2}{5}$	 $\frac{1}{4}$ $\frac{3}{4}$
 $\frac{7}{12}$ $\frac{9}{12}$	 $\frac{4}{6}$ $\frac{2}{6}$

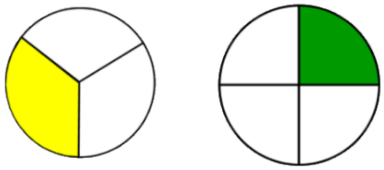
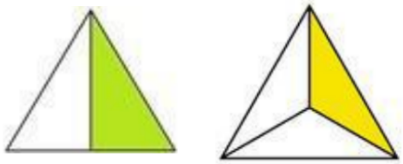
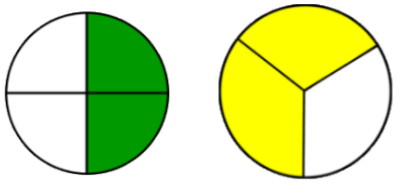
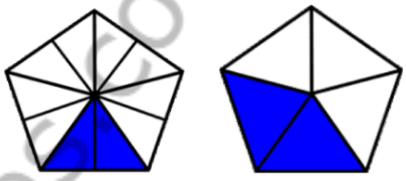
Circle the fractions that are **SMALLER.**

 $\frac{15}{16}$ $\frac{14}{16}$	 $\frac{5}{8}$ $\frac{7}{8}$
 $\frac{1}{10}$ $\frac{5}{10}$	 $\frac{2}{6}$ $\frac{1}{6}$

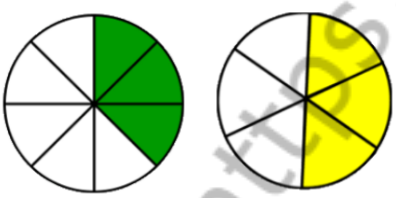
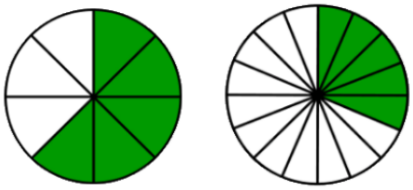
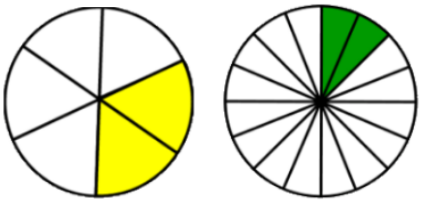
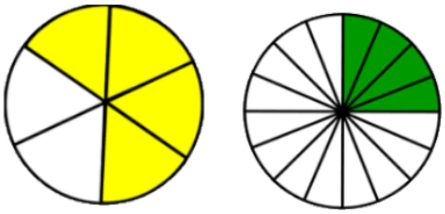
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Compare fractions (same numerators, different denominators)

Circle the fractions that are **GREATER.**

 $\frac{1}{3}$ $\frac{1}{4}$	 $\frac{1}{2}$ $\frac{1}{3}$
 $\frac{2}{4}$ $\frac{2}{3}$	 $\frac{2}{10}$ $\frac{2}{5}$

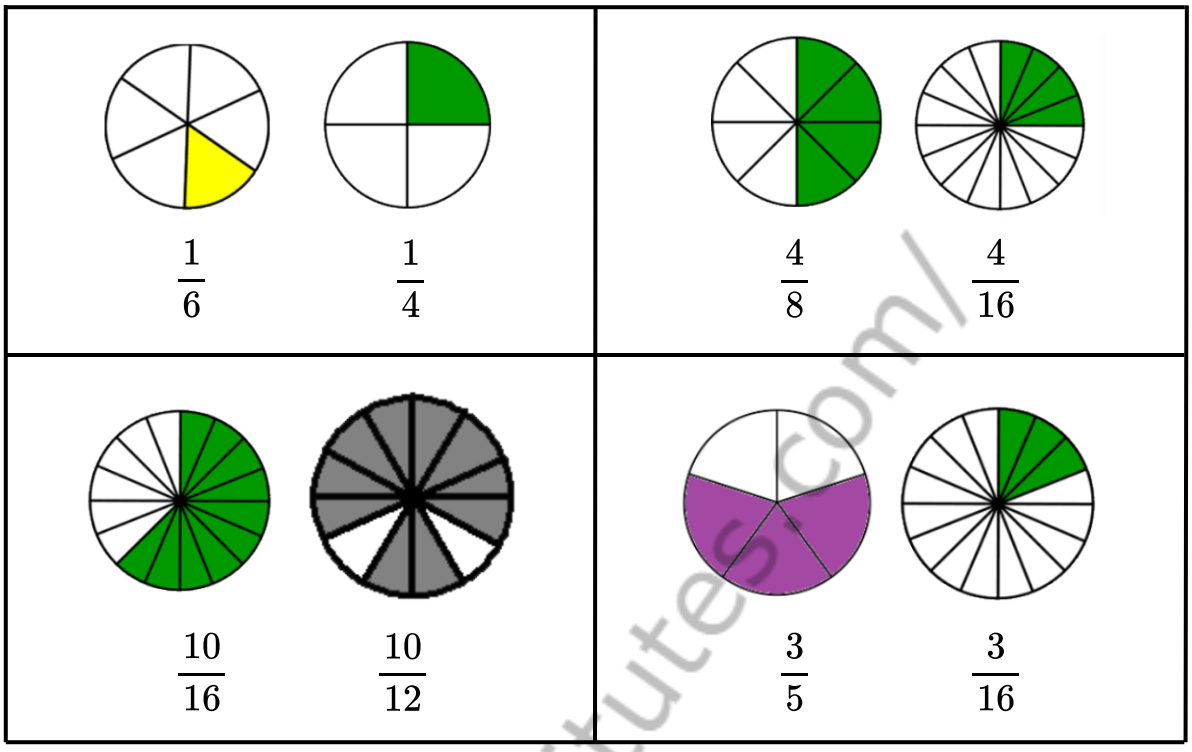
Circle the fractions that are **SMALLER.**

 $\frac{3}{8}$ $\frac{3}{6}$	 $\frac{5}{8}$ $\frac{5}{16}$
 $\frac{2}{6}$ $\frac{2}{16}$	 $\frac{4}{6}$ $\frac{4}{16}$

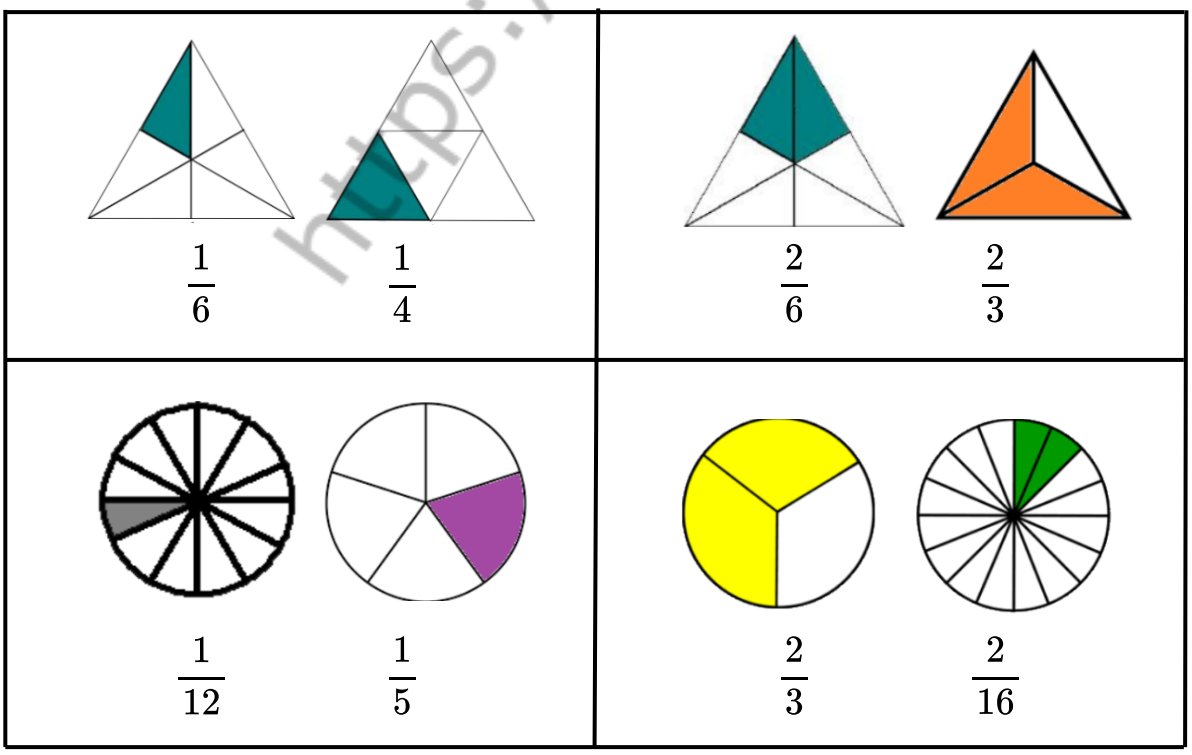
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Compare fractions (same numerators, different denominators)

Circle the fractions that are **GREATER.**



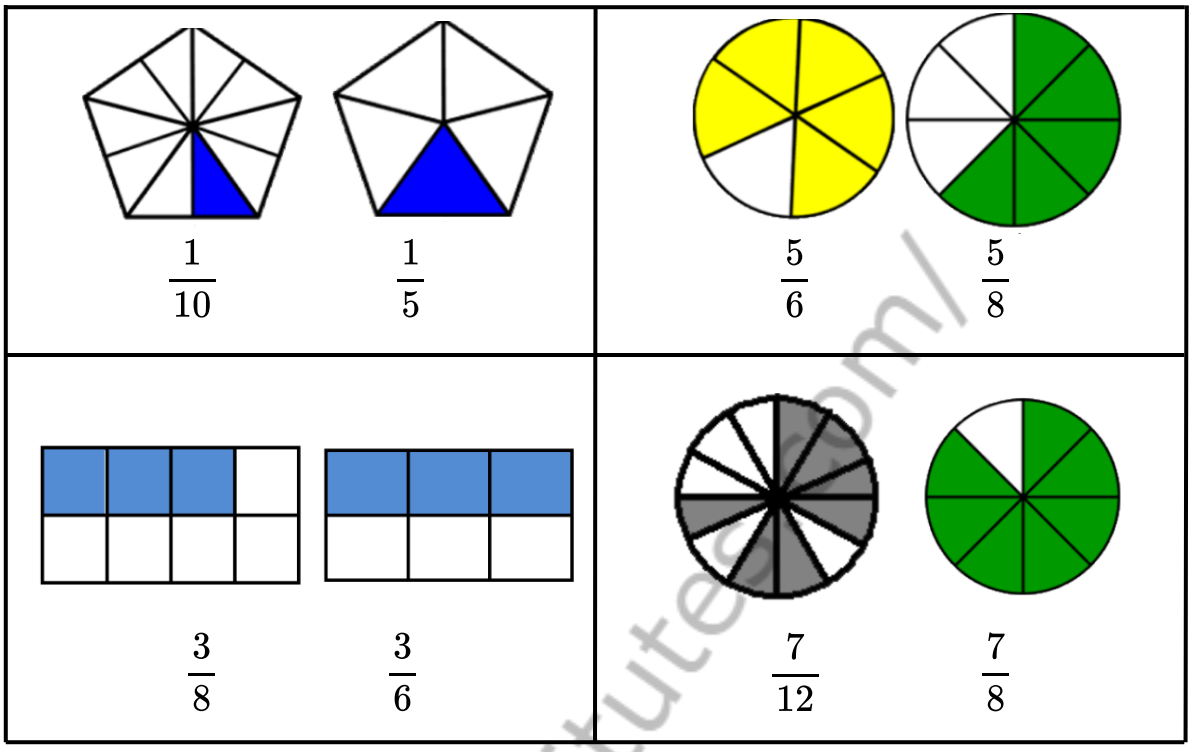
Circle the fractions that are **SMALLER.**



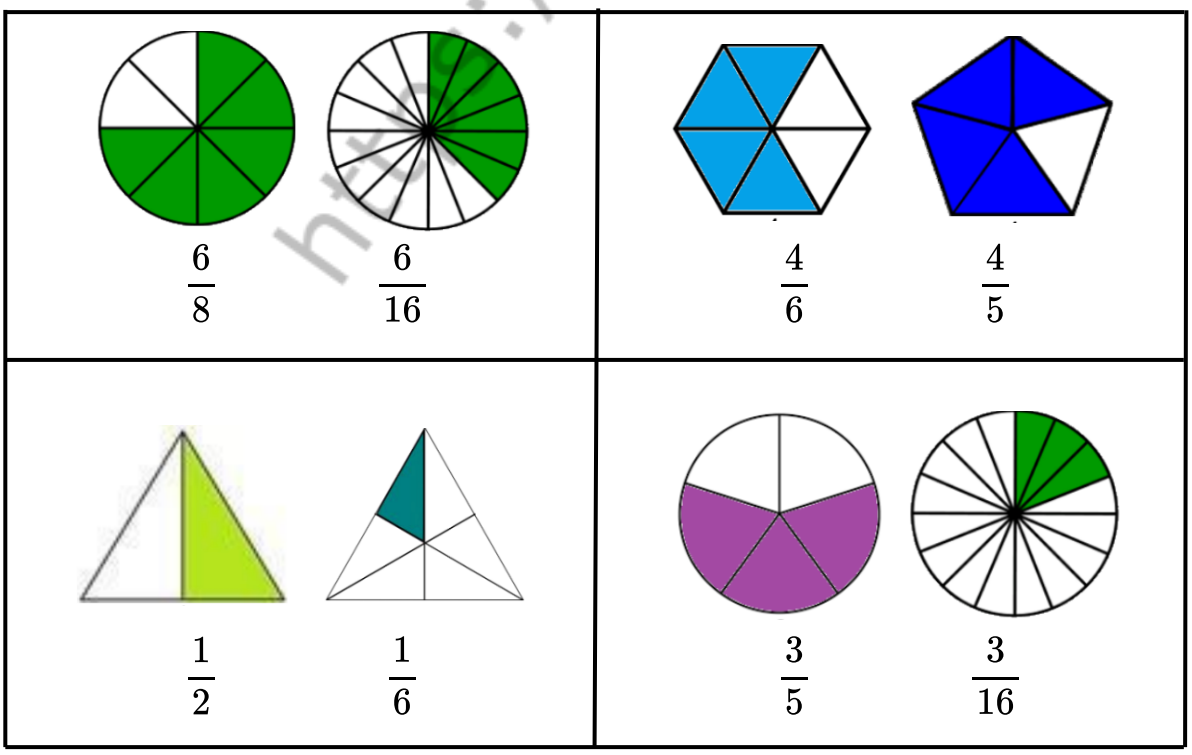
CHAPTER 2 - FRACTIONS (ADD & SUBTRACT)

Compare fractions (same numerators, different denominators)

Circle the fractions that are **GREATER.**



Circle the fractions that are **SMALLER.**



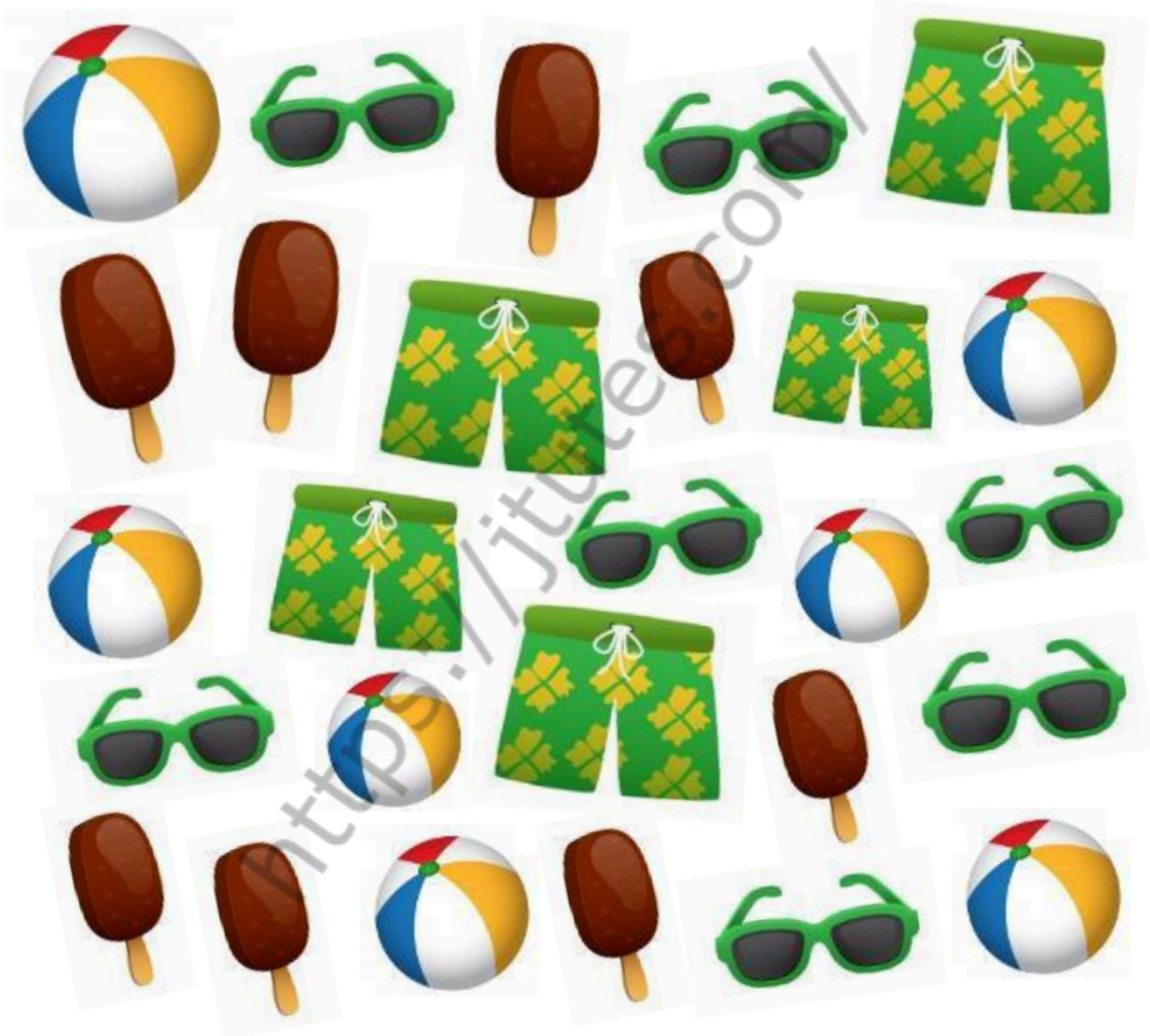
CHAPTER 3 - PICTOGRAPH & TALLY MARKS

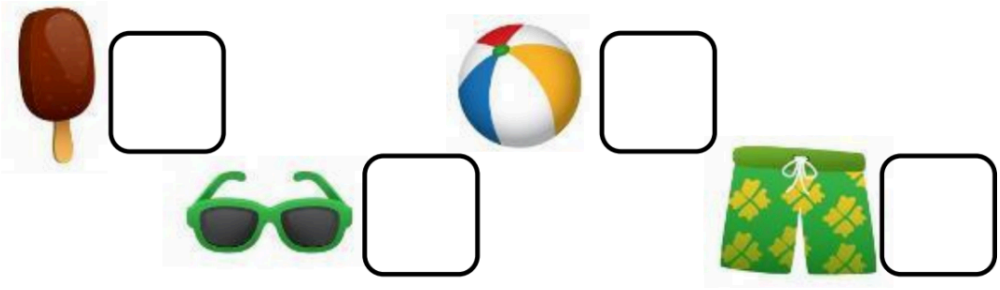
CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Sort and count summer items

Data and Graphing Worksheet

Circle the balls. Cross out the ice creams. Draw a square around the sunglasses. Write the totals.

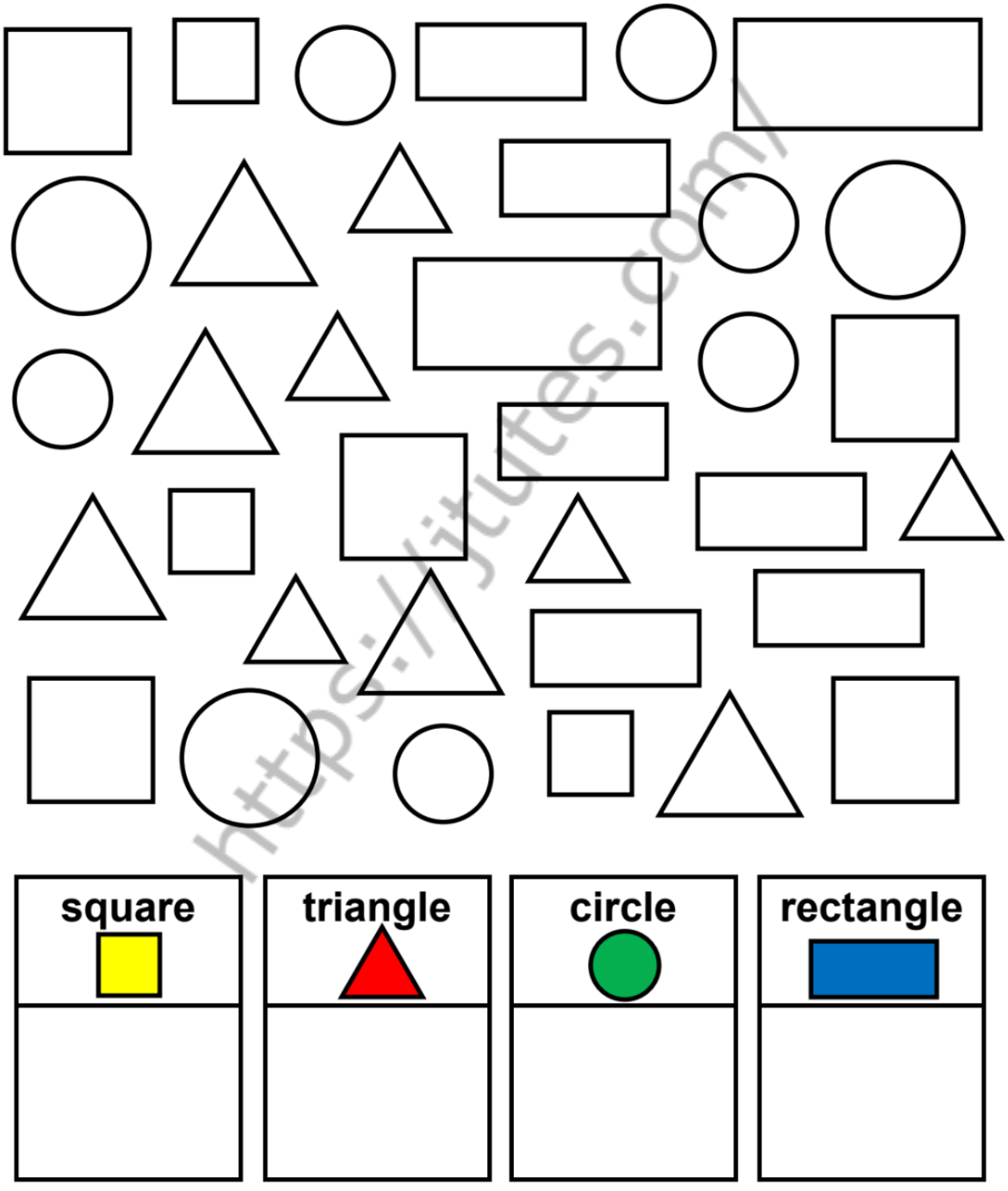




CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Sort and count shapes

Color the shapes as shown below.
Write the total number of each shape.



CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Sticker designs tally sheet

Data and Graphing Worksheet

Draw tally marks for each sticker design.
Count the tally marks and write the number.

Sticker design	Tally marks	Number
		
		
		
		

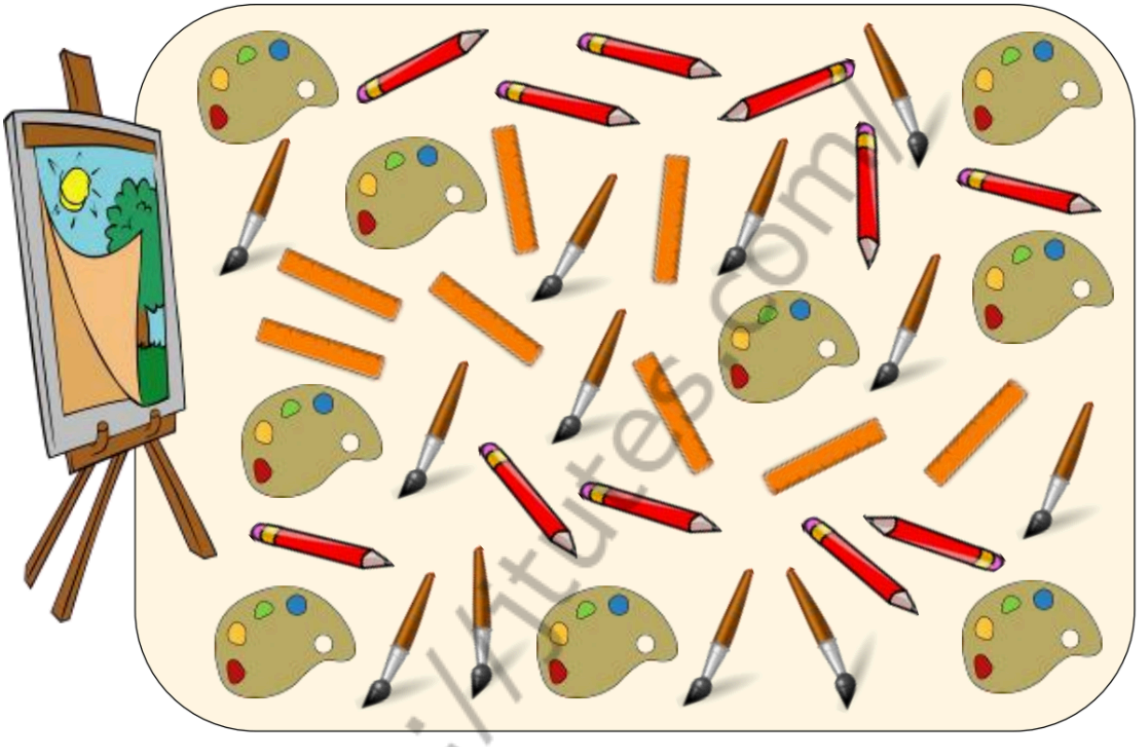
Total ☐

CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Art materials tally sheet

Data and Graphing Worksheet

Draw tally marks for each item.
Count the tally marks and write the number.



Material	Tally marks	Number
Paint 		
Paint brush 		
Pencil 		
Ruler 		

Total ☐

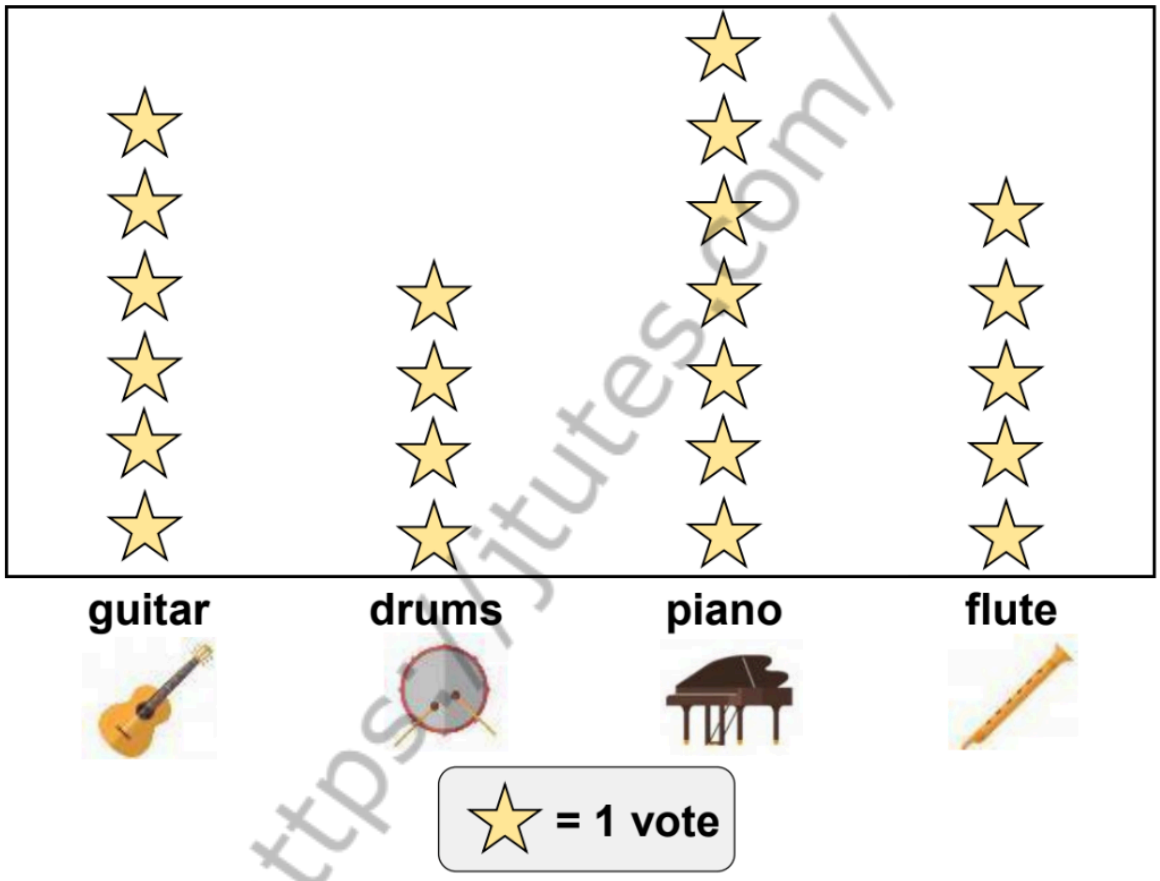
CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Musical instrument pictograph

Data and Graphing Worksheet

A group of kids voted for thier favorite musical instrument.

Numbers of votes



1) Which instrument got the most votes? _____

2) Which instrument got five votes? _____

3) How many more votes did the guitar have than the drums? _____

4) How many votes did the piano and flute have together? _____

CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Hotdogs pictograph

Data and Graphing Worksheet

Four friends prepared hotdogs for their picnic day.

Numbers of hotdogs

Tim								
Jane								
Mae								
Ben								

 = 1 hotdog

1) Who prepared five hotdogs? _____

2) Who prepared the most hotdogs? _____

3) How many hotdogs did Ben prepare? _____

4) Which 2 friends prepared the same number of hotdogs? _____

5) How many hotdogs were prepared by Mae and Ben? _____

CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Hotdogs pictograph

Data and Graphing Worksheet

Four friends prepared hotdogs for their picnic day.

Numbers of hotdogs

Tim								
Jane								
Mae								
Ben								

 = 1 hotdog

1) Who prepared five hotdogs? _____

2) Who prepared the most hotdogs? _____

3) How many hotdogs did Ben prepare? _____

4) Which 2 friends prepared the same number of hotdogs? _____

5) How many hotdogs were prepared by Mae and Ben? _____

CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Cupcakes pictograph

Data and Graphing Worksheet

Kathy baked cupcakes from Monday to Friday for her friends. Use the information to answer the questions.

Numbers of cupcakes

Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

 = 1 cupcake

1) How many cupcakes did Kathy bake on Friday? _____

2) On what day did she bake 7 cupcakes? _____

3) On what day did she bake the least cupcakes? _____

4) On what day did she bake the most cupcakes? _____

5) How many cupcakes did she bake on Thursday and Friday together? _____

CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Empty bottles pictograph

Data and Graphing Worksheet

Five friends collected empty bottles for their recycling project.

Numbers of empty bottles

Jack	
Linda	
Mike	
Sarah	
Julie	

 = 1 bottle

1) How many bottles did Sarah collect? _____

2) Who collected nine bottles? _____

3) Who collected the most bottles? _____

4) Who collected the least bottles? _____

5) How many more bottles, Sarah or Linda? _____

6) How many more bottles did Jack collect than Linda? _____

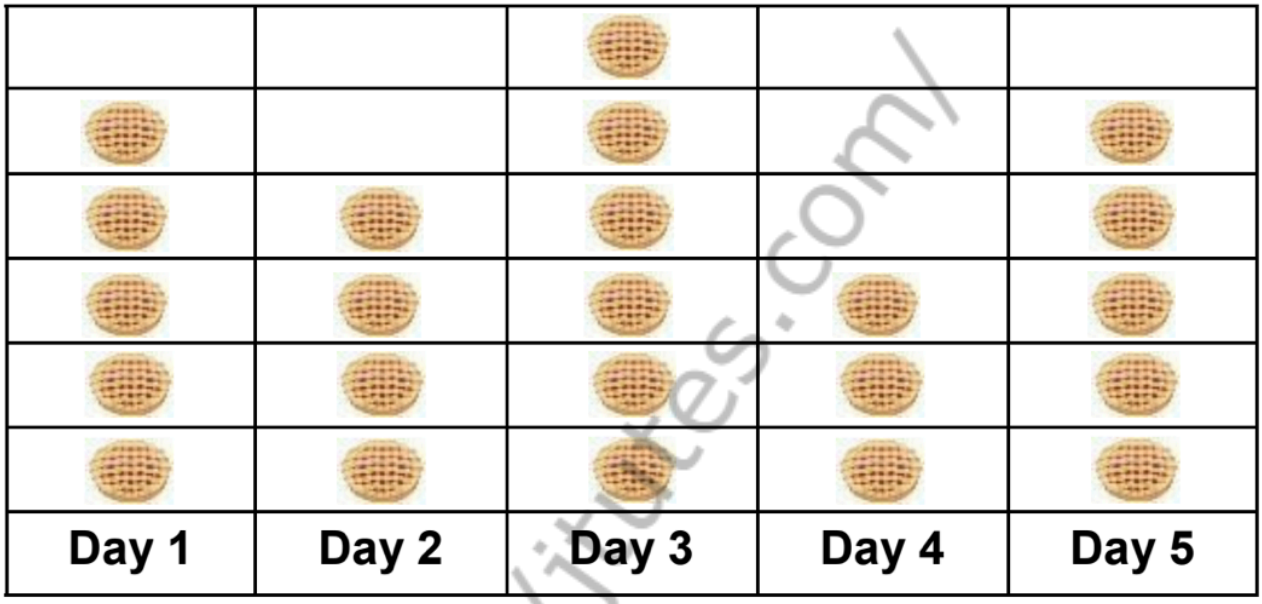
CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Apple pie sales pictograph

Data and Graphing Worksheet

Jan recorded her apple pie sales for five days.

Numbers of apple pies sold



= 2 apple pies

1) How many apple pies did Jan sell on Day 2? _____

2) What day did she sell 6 pies? _____

3) What day did she sell the most pies? _____

4) What days did she sell the same number of pies? _____

5) How many more pies did she sell on Day 5 than Day 4? _____

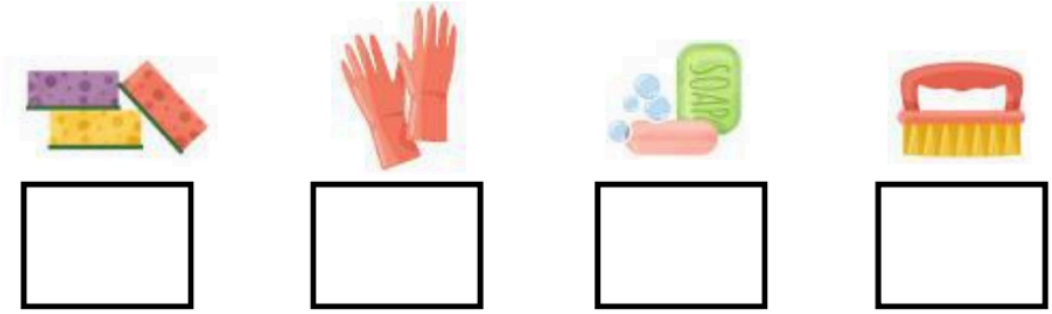
6) How many apple pies did she sell on Day 2 and Day 3? _____

CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Cleaning supplies line plot

Data and Graphing Worksheet

The line plot shows the number of cleaning supplies in the house. Write the number of each item inside the box.

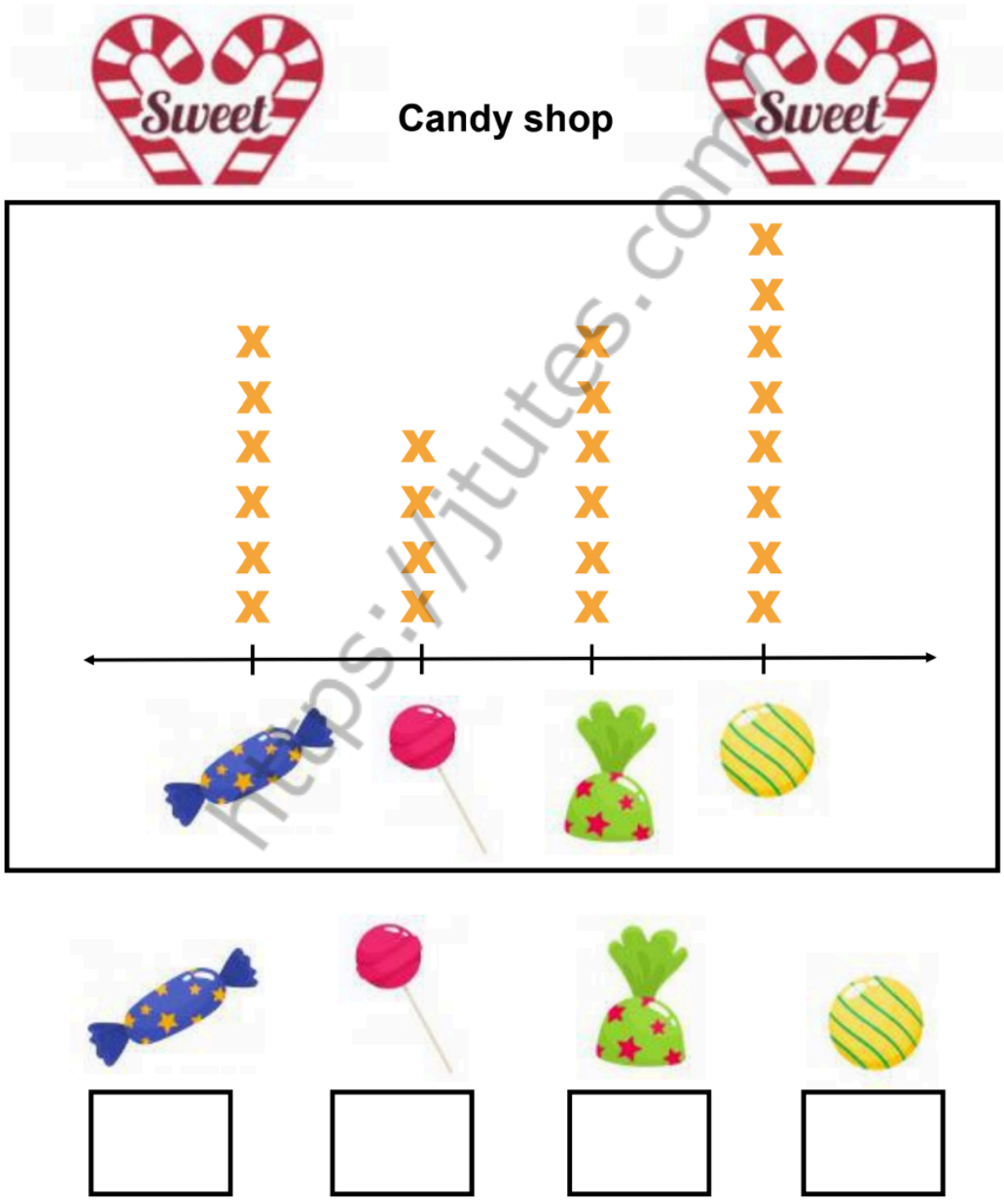


CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Candy shop line plot

Data and Graphing Worksheet

The line plot shows the number of candies in the shop.
Write the number of each candy.



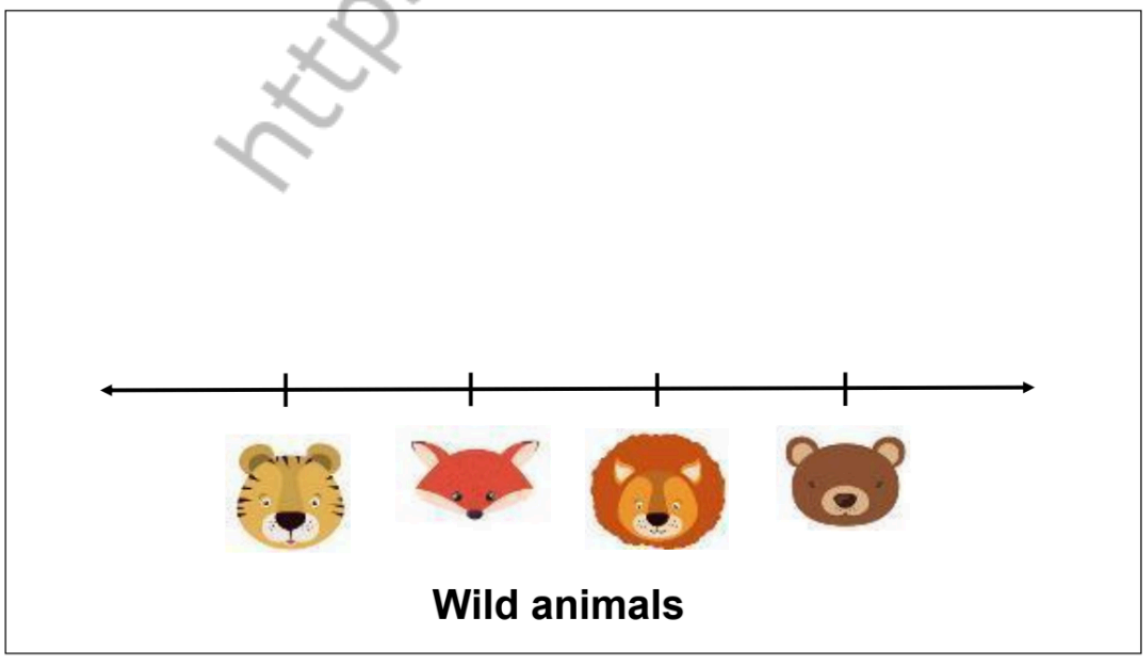
CHAPTER 3 - PICTOGRAPH & TALLY MARKS

Wild animals line plot

Data and Graphing Worksheet

Count each animal and make a line plot.

Wild animals



ICAS

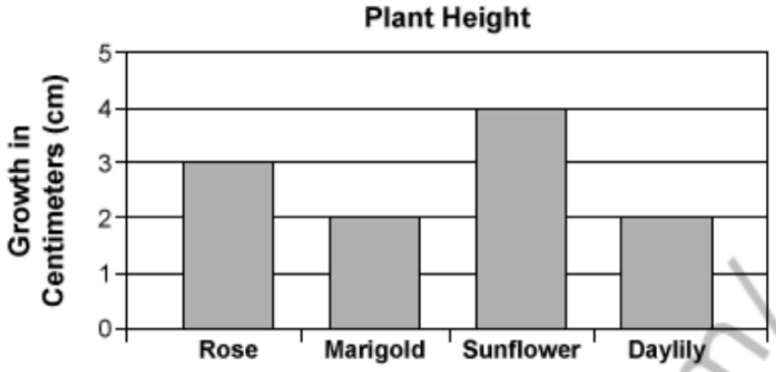
WEEK 4 - MATERIAL FOR THIS WEEK IS AT THE END OF THE BOOK

CHAPTER 5 - BAR & COLUMN GRAPHS

CHAPTER 5 - BAR & COLUMN GRAPHS

Comparing Data with Bar Graphs

1) Use the bar graph below to answer the questions.



A) How many more centimeters did the sunflower grow than the marigold?
   a. 1
   b. 2
   c. 3
   d. 4

B) How many fewer centimeters did the daylily grow than the rose?
   a. 1
   b. 2
   c. 3
   d. 4

C) Which plant grew the most?
   a. Rose
   b. Marigold
   c. Sunflower
   d. Daylily

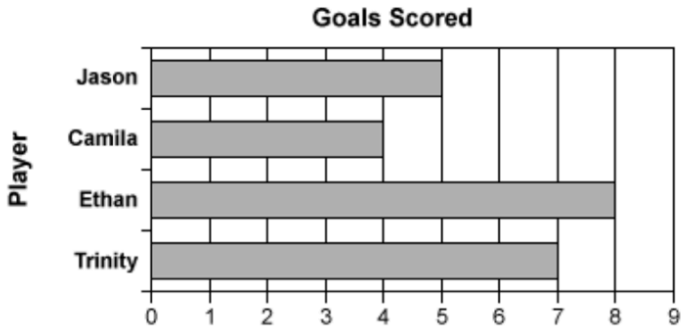
D) Which two plants grew the same amount?
   a. Rose and Daylily
   b. Sunflower and Rose
   c. Daylily and Marigold
   d. Marigold and Sunflower

E) A daisy grew 3 centimeters. Which flower grew the same number of centimeters as the daisy?
   a. Rose
   b. Marigold
   c. Sunflower
   d. Daylily

CHAPTER 5 - BAR & COLUMN GRAPHS

Comparing Data with Bar Graphs

2) The bar graph below shows the number of goals four soccer players scored over the season. Use the graph to answer the questions.



A) How many more goals did Ethan score than Jason?
   a. 1
   b. 3
   c. 5
   d. 8

B) Who scored more goals than Trinity?
   a. no one
   b. Jason
   c. Camila
   d. Ethan

C) How many fewer goals did Camila score than Jason?
   a. 1
   b. 2
   c. 3
   d. 4

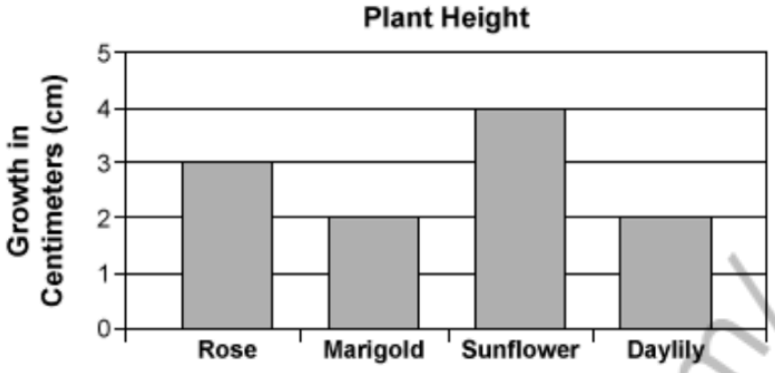
D) Which shows the players names in order from who scored the fewest goals to who scored the most goals?
   a. Camila, Jason, Trinity, Ethan
   b. Jason, Ethan, Camila, Trinity
   c. Camila, Trinity, Ethan, Jason
   d. Jason, Camila, Trinity, Ethan

E) Ashley scored 8 goals. Who scored the same number of goals as Ashley?
   a. Jason
   b. Camila
   c. Ethan
   d. Trinity

CHAPTER 5 - BAR & COLUMN GRAPHS

Single-Unit Scale Bar Graphs

1) Use the bar graph below to answer the questions.



A) How many centimeters did the sunflower grow?

a. 1
b. 2
c. 3
d. 4

B) How many centimeters did the daylily grow?

a. 1
b. 2
c. 3
d. 4

C) Which plant grew 3 centimeters?

a. Rose
b. Marigold
c. Sunflower
d. Daylily

D) Which plant gre the most?

a. Rose
b. Marigold
c. Sunflower
d. Daylily

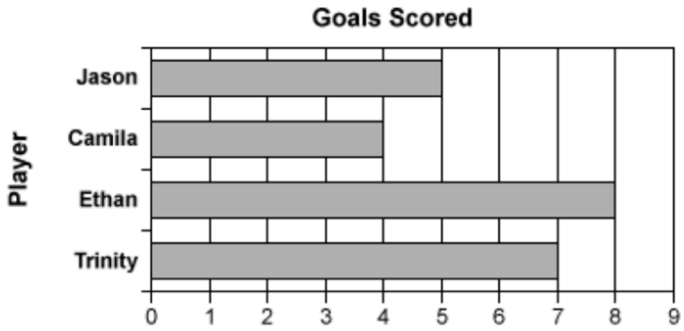
E) Which two plants grew the same amount?

a. Rose and Daylily
b. Sunflower and Rose
c. Daylily and Marigold
d. Marigold and Sunflower

CHAPTER 5 - BAR & COLUMN GRAPHS

Single-Unit Scale Bar Graphs

2) The bar graph below shows the number of goals four soccer players scored over the season. Use the graph to answer the questions.



A) How many goals did Trinity score?
   a. 5
   b. 6
   c. 7
   d. 8

B) Who scored the most goals?
   a. Jason
   b. Camila
   c. Ethan
   d. Trinity

C) Who scored 4 goals?
   a. Jason
   b. Camila
   c. Ethan
   d. Trinity

D) Who scored more goals than Trinity
   a. no one
   b. Jason
   c. Camila
   d. Ethan

E) Which shows the players names in order from who scored the fewest goals to who scored the most goals?
   a. Camila, Jason, Trinity, Ethan
   b. Jason, Ethan, Camila, Trinity
   c. Camila, Trinity, Ethan, Jason
   d. Jason, Camila, Trinity, Ethan

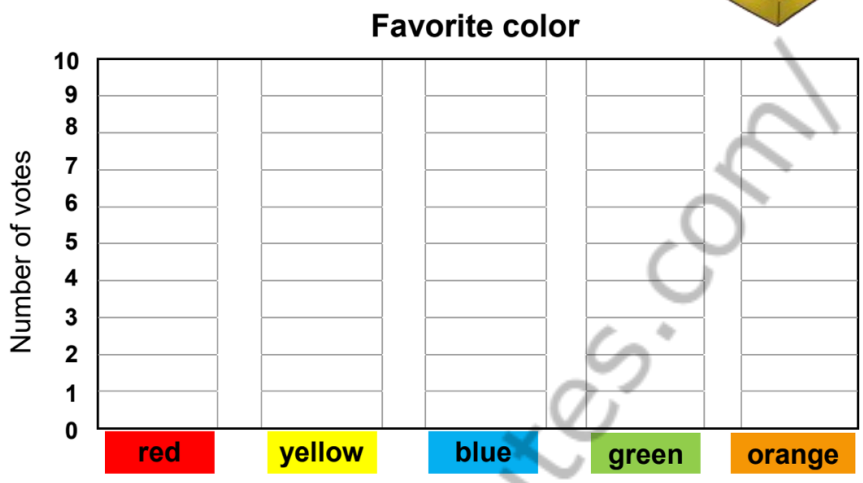
CHAPTER 5 - BAR & COLUMN GRAPHS

Favorite color bar graph

Data and Graphing Worksheet

Kyla asked her friends to vote on their favorite colors. Create a bar graph and answer the questions.

Color	red	yellow	blue	green	orange
Votes	6	10	5	6	8



1) What color is liked the most? _____

2) What color is liked the least? _____

3) What two colors got a total of 12 votes? _____

4) How many more votes did red have than blue? _____

5) How many fewer votes did blue have than yellow? _____

6) How many kids voted for red, green and orange? _____

7) What is the difference between the votes for orange and blue? _____

8) How many votes were there in total? _____

CHAPTER 5 - BAR & COLUMN GRAPHS

Halloween Count and Graph

Instructions: Color the graph to show the number of each Halloween picture.

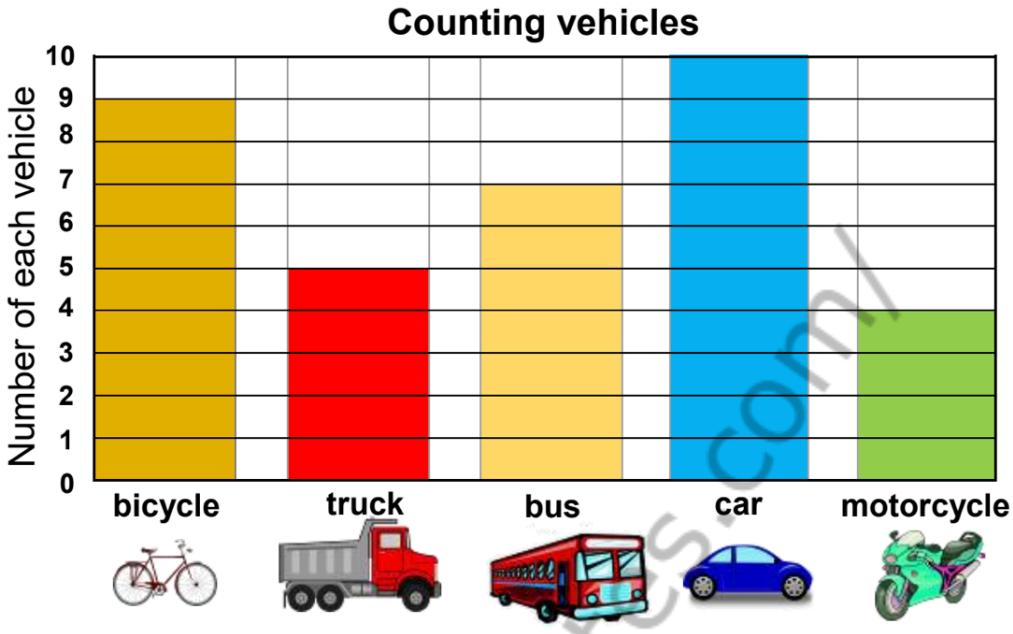
5			
4			
3			
2			
1			
			

CHAPTER 5 - BAR & COLUMN GRAPHS

Parking bar graph

Data and Graphing Worksheet

Dan counted each vehicle in the parking lot.



1) Which type of vehicle is greatest in number?

a. bicycle b. car c. bus

2) How many less trucks are there than buses?

a. 2 b. 5 c. 7

3) How many more bicycles are there than motorcycles?

a. 3 b. 4 c. 5

4) How many trucks and cars are there?

a. 10 b. 15 c. 20

5) Which type of vehicle has 4 more than the number of trucks?

a. car b. bicycle c. motorcycle

6) How many vehicles are there in total?

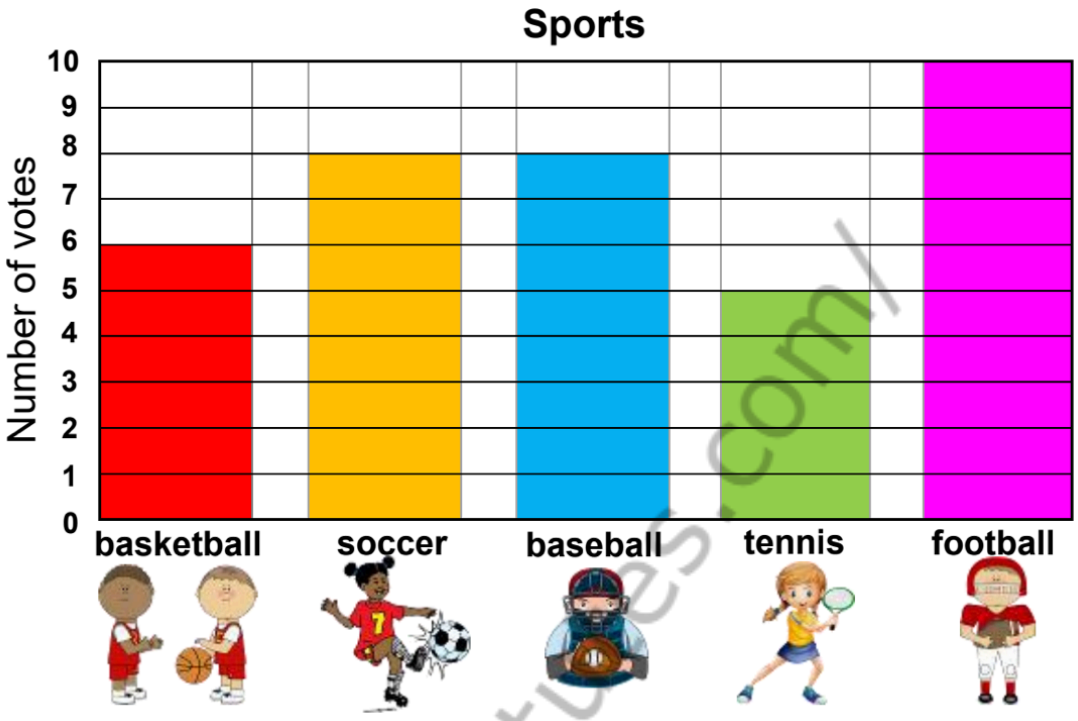
a. 25 b. 30 c. 35

CHAPTER 5 - BAR & COLUMN GRAPHS

Sports bar graph

Data and Graphing Worksheet

Harry asked his friends what sport they played.



1) What sport was played by 6 epople?

a. tennis b. basketball c. baseball

2) How many people played tennis?

a. 5 b. 6 c. 7

3) What sport is played the most?

a. soccer b. baseball c. football

4) What sport is played the least?

a. tennis b. basketball c. soccer

5) Which sports are played by the same number of people?

a. basketball and tennis
b. soccer and basketball
c. football and basketball

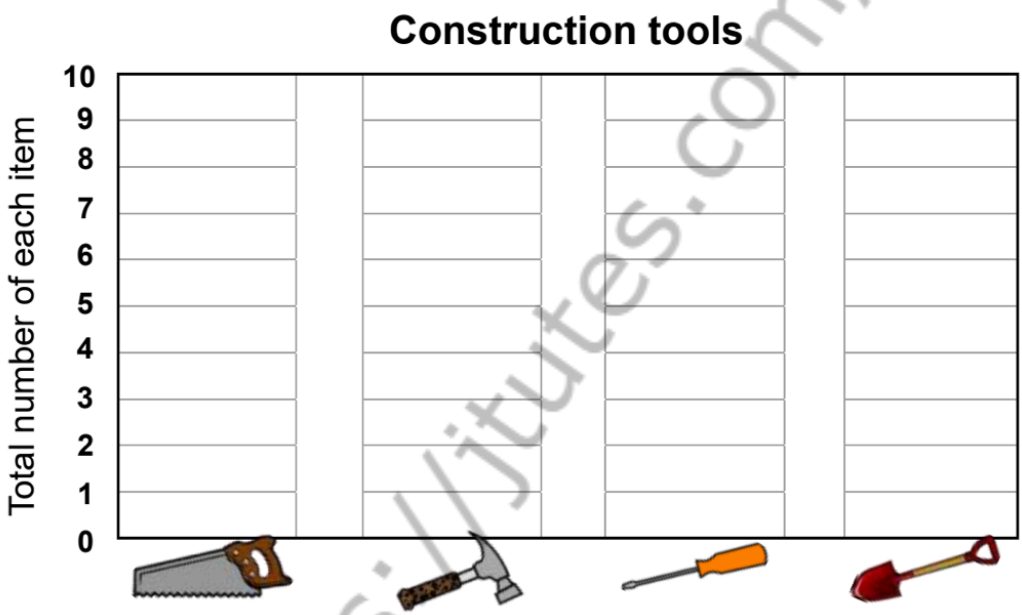
CHAPTER 5 - BAR & COLUMN GRAPHS

Tools bar graph

Data and Graphing Worksheet

Vince recorded the total number of each tool.
Create a bar graph and answer the questions.

Tools	Saw	Hammer	Screwdriver	Shovel
Total number	5	9	8	8



1) How many screwdrivers are there? _____

2) Which tool is the greatest in number? _____

3) Which tool is the least in number? _____

4) Which tools have the same number? _____

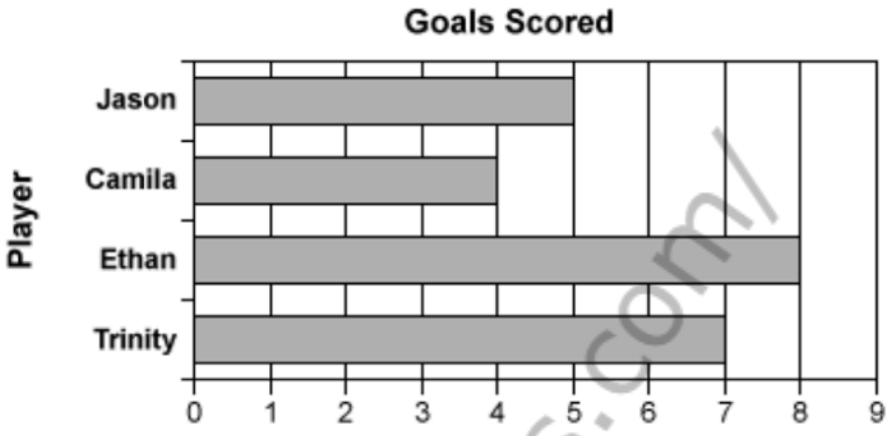
5) How many shovels and hammers are there? _____

6) If Vince added six more hammers, how many hammers would there be? _____

CHAPTER 5 - BAR & COLUMN GRAPHS

Reading Horizontal Bar Graphs

Instructions: The bar graph below shows the number of soccer goals four players made during the season. Use the graph to answer the questions.



a) How many goals did Jason score? _____

b) How many goals did Camila score? _____

c) How many goals did Ethan score? _____

d) How many goals did Trinity score? _____

e) Who scored the most goals? _____

f) Who scored the fewest goals? _____

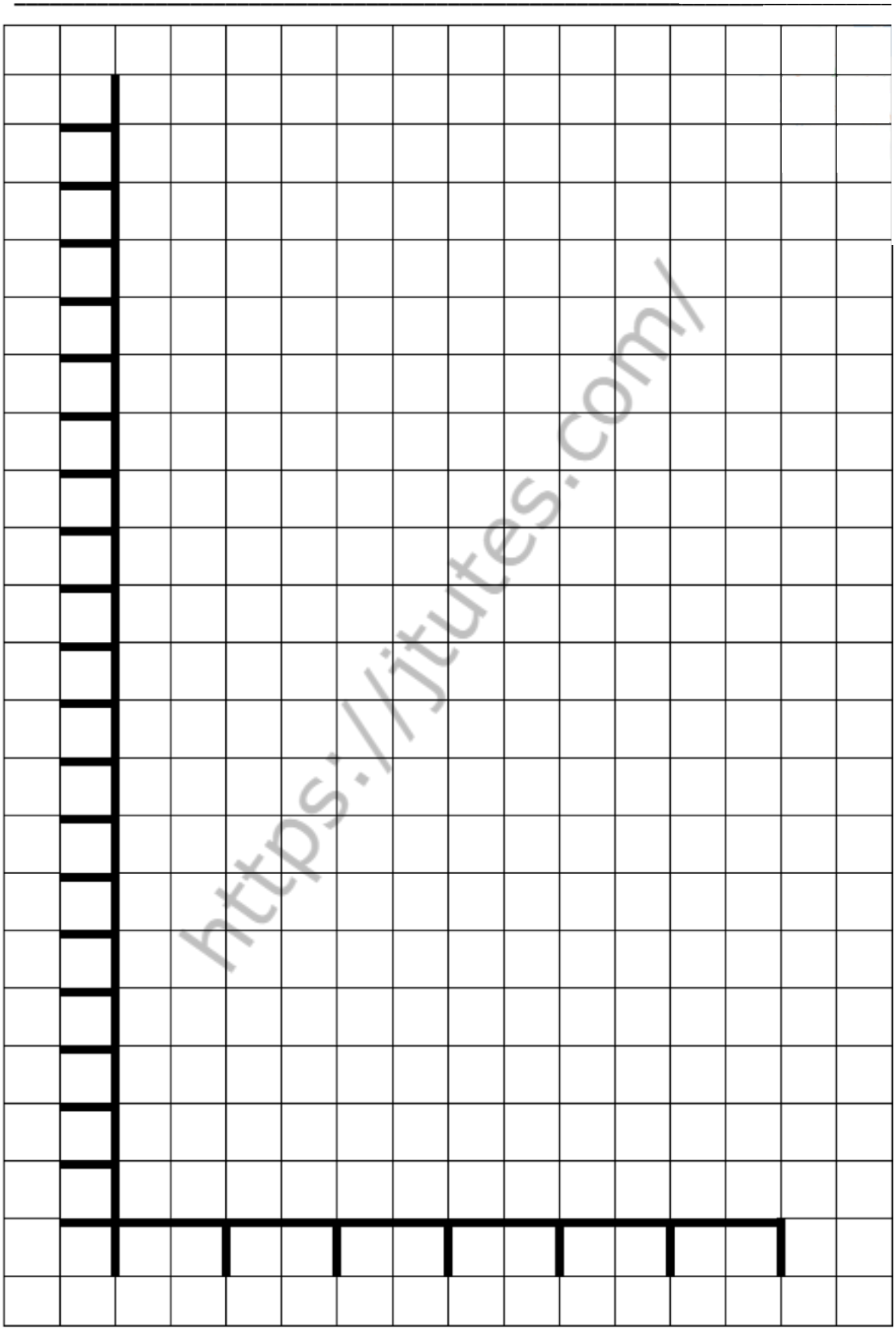
g) Who scored more goals, Jason or Trinity? _____

h) Who scored fewer goals, Camila or Ethan? _____

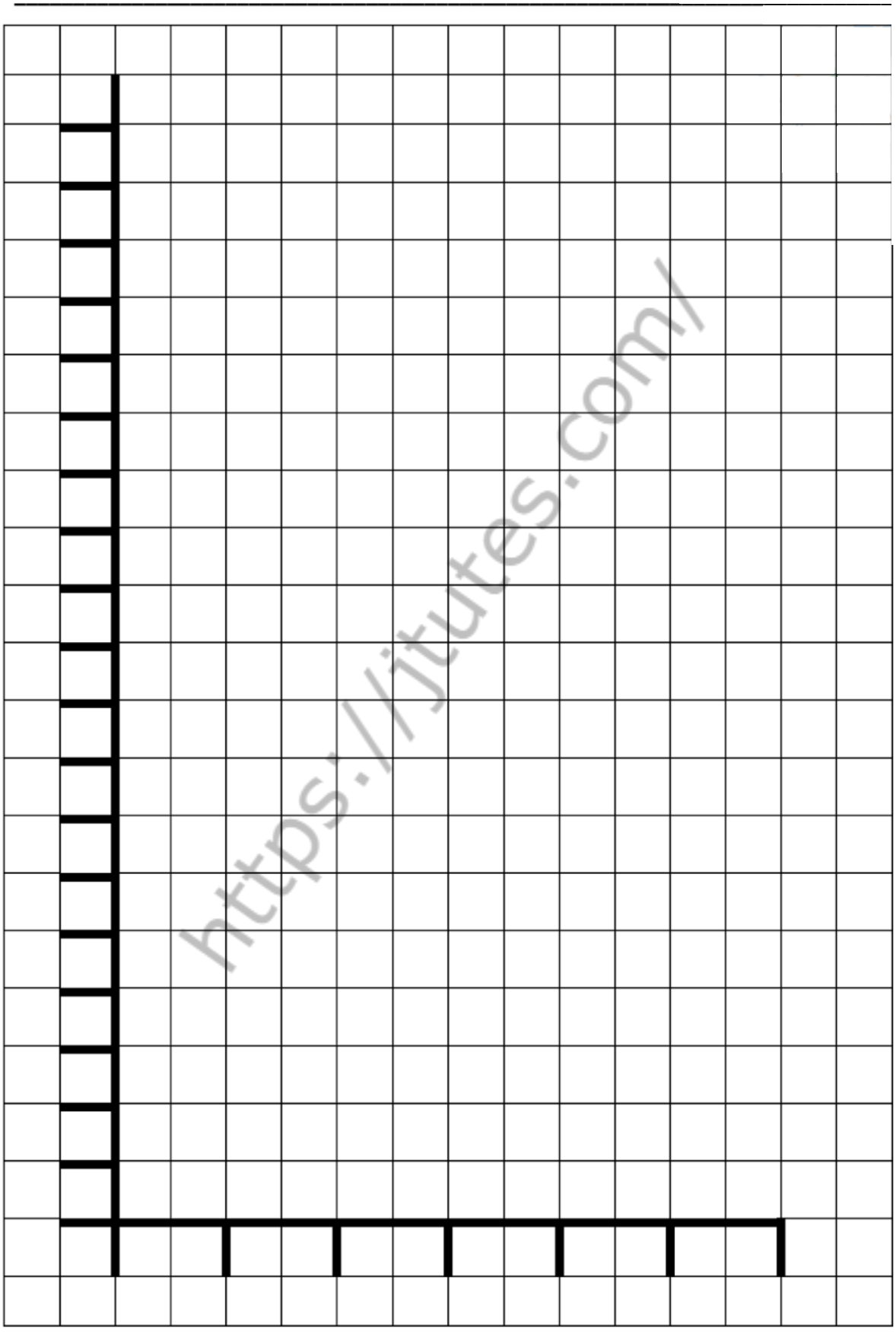
i) How many more goals did Trinity score than Camila? _____

j) How many more goals did Ethan score than Trinity? _____

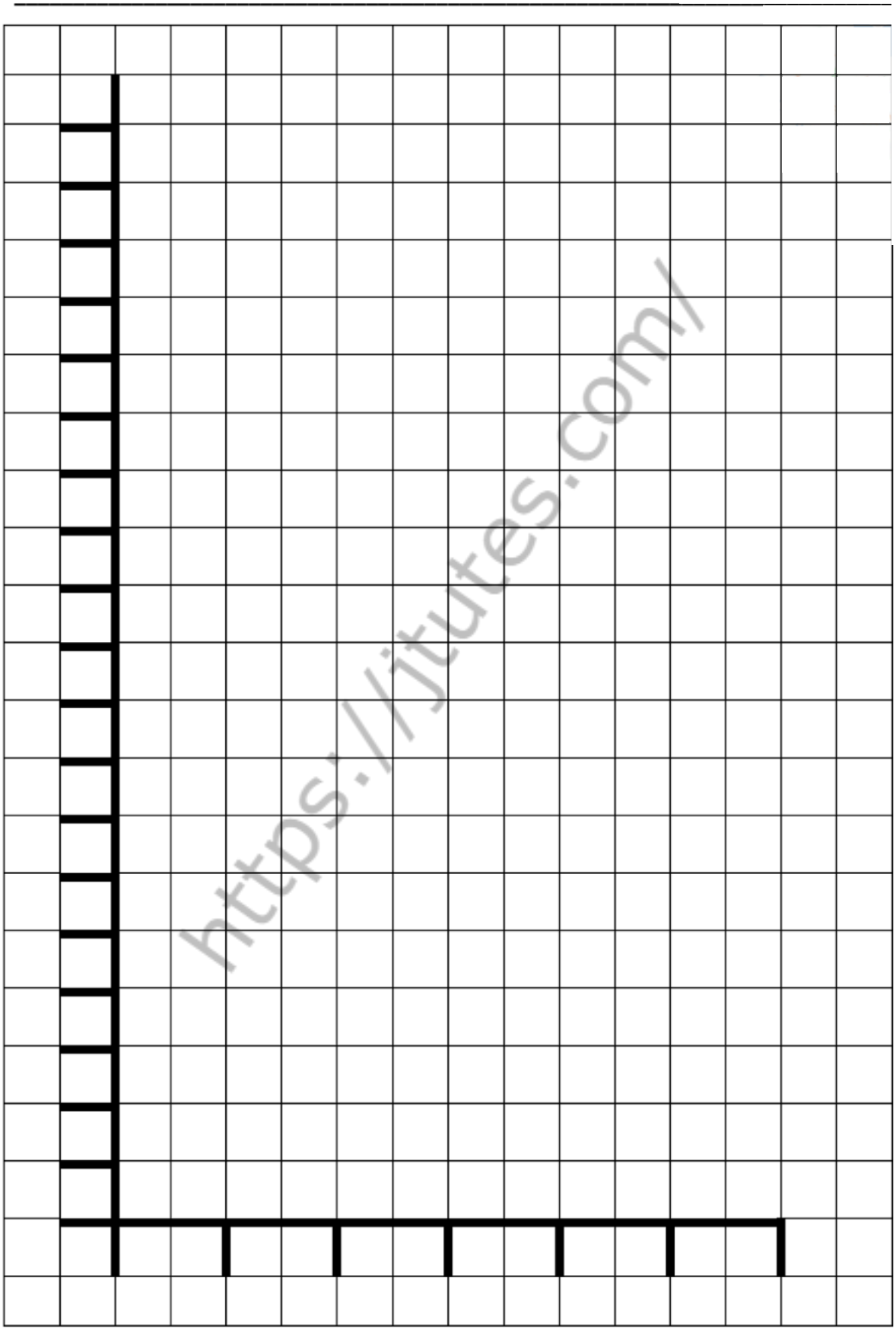
CHAPTER 5 - BAR & COLUMN GRAPHS



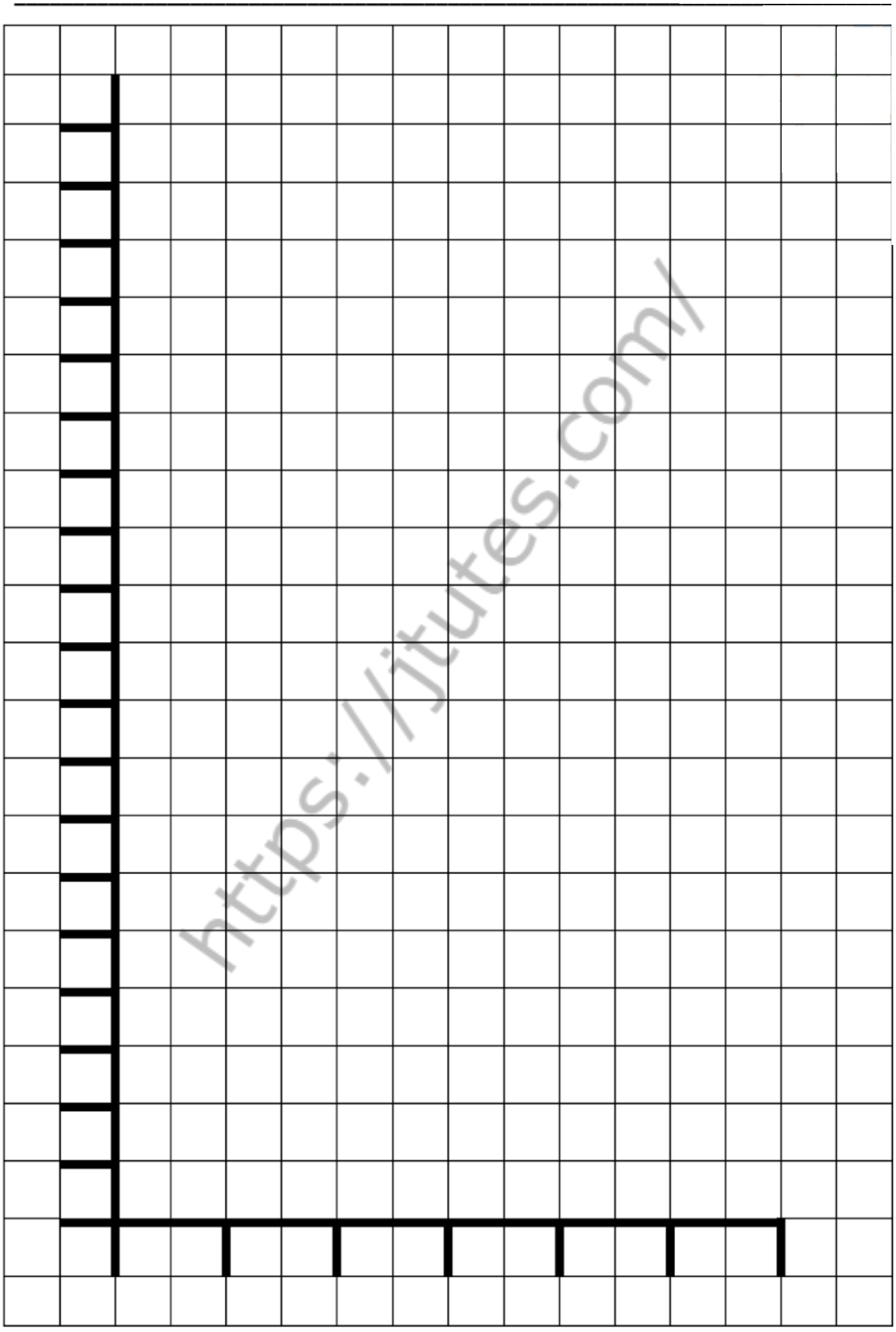
CHAPTER 5 - BAR & COLUMN GRAPHS



CHAPTER 5 - BAR & COLUMN GRAPHS



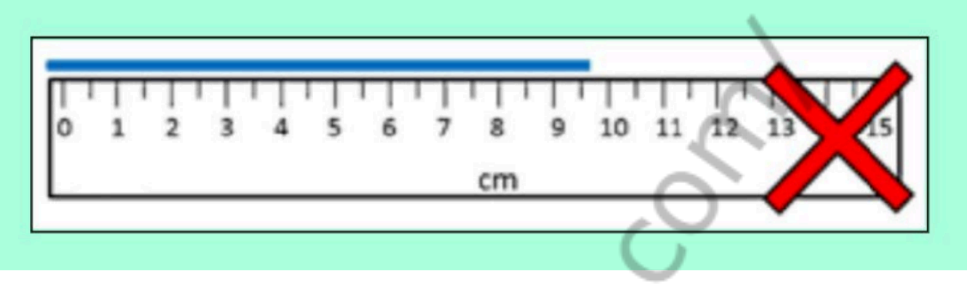
CHAPTER 5 - BAR & COLUMN GRAPHS



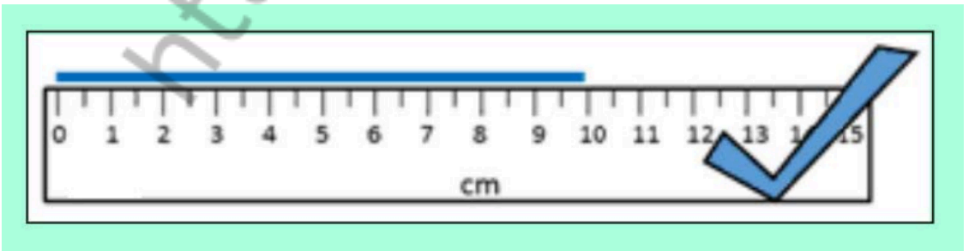
CHAPTER 6 - MEASUREMENTS - I

CHAPTER 6 - MEASUREMENTS - I

Incorrect position of ruler to measure a line with the line starting at the end of the ruler.

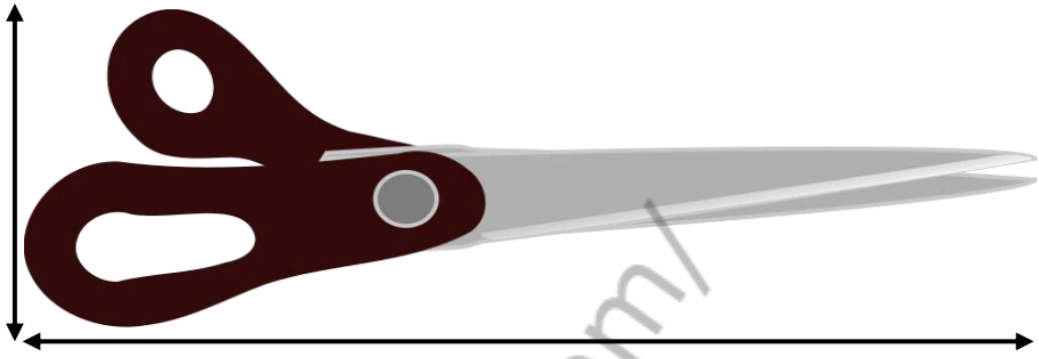


Correct position of ruler to measure a line with the line starting at zero.



CHAPTER 6 - MEASUREMENTS - I

Measure using a ruler

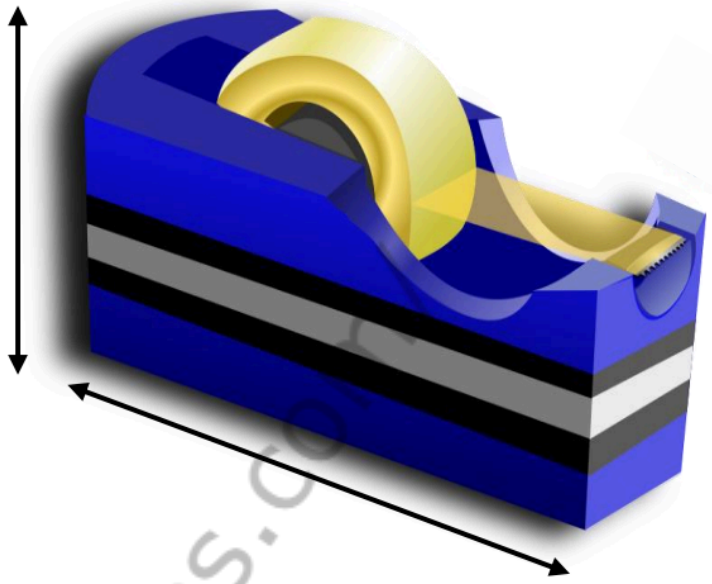


Length of this pair of scissors: _____ cm
Width of this pair of scissors: _____ cm

Length of this notebook: _____ cm
Width of this notebook: _____ cm

CHAPTER 6 - MEASUREMENTS - I

Measure using a ruler



Length of this tape dispenser: _____ cm
Height of this tape dispenser: _____ cm

Length of this book mark: _____ cm
Width of this book mark: _____ cm

CHAPTER 6 - MEASUREMENTS - I

Estimate and measure length in centimeters

Estimate the height of each picture in centimeters.

Pine tree

Height: _____ centimeters

Maple tree

Height: _____ centimeters

Measure the height of the pictures using a centimeter ruler.

Pine tree

Height: _____ centimeters

Maple tree

Height: _____ centimeters

CHAPTER 6 - MEASUREMENTS - I

Estimate and measure lengths in centimeters

Estimate the height of each picture in centimeters.

Boy

Height: _____ centimeters

Girl

Height: _____ centimeters

Measure the height of the pictures using a centimeter ruler.

Boy

Height: _____ centimeters

Girl

Height: _____ centimeters

CHAPTER 6 - MEASUREMENTS - I

Measure lengths using a ruler

Use a centimeter ruler to measure the height of each picture

Height		
Wrench	Hammer	Screw
_____ centimeters	_____ centimeters	_____ centimeters

CHAPTER 6 - MEASUREMENTS - I

Measure lengths using a ruler starting from 2cm

Use a centimeter ruler to measure the height of each picture

Height (round to the nearest quarter or centimeter)		
Glass	Candle	Bottle
_____ quarters	_____ quarters	_____ quarters
_____ centimeters	_____ centimeters	_____ centimeters

CHAPTER 6 - MEASUREMENTS - I

Measure and Estimating Length

Instructions: Answer each question by first estimating the length and then measuring with the ruler.

1) How many inches long is the line?

Estimated Length _____

Measured Length _____

2) How many inches wide is the soccer ball?

Estimated Length _____

Measured Length _____

3) How many inches tall is the rectangle?

Estimated Length _____

Measured Length _____

CHAPTER 6 - MEASUREMENTS - I

Metric units of length

1) Which unit would you use to measure the length of a bath tub?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

2) Which unit would you use to measure the distance between two cities?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

3) Which unit would you use to measure the thickness of a magazine?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

4) Which unit would you use to measure the width of a door?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

5) Which unit would you use to measure the length of your arm?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

6) Which unit would you use to measure the length of an ant?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

7) Which unit would you use to measure the height of a building?
   a. millimeters
   b. centimeters
   c. meters
   d. kilometers

CHAPTER 6 - MEASUREMENTS - I

Metric units of length

1) Which is the most reasonable measure for the distance between Sydney and London?
   a. 16,983 millimeters
   b. 16,983centimeters
   c. 16,983 meters
   d. 16,983 kilometers

2) Which is the most reasonable measure for the diameter of a basketball?
   a. 24 millimeters
   b. 24 centimeters
   c. 24 meters
   d. 24 kilometers

3) Which is the most reasonable measure for the width of a twin bed?
   a. 99 millimeters
   b. 99 centimeters
   c. 99 meters
   d. 99 kilometers

4) Which is the most reasonable measure for the height of a fridge?
   a. 1.5 millimeters
   b. 1.5 centimeters
   c. 1.5 meters
   d. 1.5 kilometers

5) Which is the most reasonable measure for the length of a spider?
   a. 15 millimeters
   b. 15 centimeters
   c. 15 meters
   d. 15 kilometers

6) Which is the most reasonable measure for the length of a track?
   a. 400 millimeters
   b. 400 centimeters
   c. 400 meters
   d. 400 kilometers

7) Which is the most reasonable measure for the speed of a sports car?
   a. 100 millimeters per hour
   b. 100 centimeters per hour
   c. 100 meters per hour
   d. 100 kilometers per hour

CHAPTER 6 - MEASUREMENTS - I

Differences in length (centimeters)

Measure the height of the pictures using a centimeter ruler.

Cupcake

Height: _____ centimeters

Wedding cake

Height: _____ centimeters

Which one is taller? _____

By how much? _____

CHAPTER 6 - MEASUREMENTS - I

Differences in length (centimeters)

Measure the height of the pictures using a centimeter ruler.

Boy

Height: _____ centimeters

Girl

Height: _____ centimeters

Which one is taller? _____

By how much? _____

CHAPTER 6 - MEASUREMENTS - I

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 31 m = cm
2) 22 cm = mm
3) 18 cm = mm
4) 85 cm = mm
5) 53 m = cm
6) 49 m = cm
7) 38 m = cm
8) 28 m = cm
9) 72 m = cm
10) 57 m = cm

Convert to the units shown:

11) 1,000 mm = cm
12) 2,000 cm = m
13) 7,000 cm = m
14) 7,000 mm = m
15) 3,000 cm = m
16) 3,000 mm = m
17) 1,000 cm = m
18) 5,000 cm = m
19) 2,000 mm = m
20) 6,000 cm = m

CHAPTER 6 - MEASUREMENTS - I

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 54 m = cm
2) 55 m = cm
3) 69 m = cm
4) 63 m = mm
5) 53 cm = mm
6) 30 m = cm
7) 47 m = mm
8) 71 cm = mm
9) 44 cm = mm
10) 45 m = cm

Convert to the units shown:

11) 5,000 cm = m
12) 5,000 mm = cm
13) 4,000 mm = m
14) 8,000 mm = cm
15) 8,000 cm = m
16) 2,000 mm = m
17) 9,000 cm = m
18) 6,000 cm = m
19) 1,000 mm = cm
20) 2,000 mm = cm

CHAPTER 6 - MEASUREMENTS - I

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 26 m = cm
2) 52 cm = mm
3) 12 m = cm
4) 55 m = cm
5) 23 m = cm
6) 58 m = mm
7) 29 m = mm
8) 63 cm = mm
9) 74 m = cm
10) 55 cm = mm

Convert to the units shown:

11) 6,000 mm = m
12) 4,000 mm = cm
13) 9,000 mm = cm
14) 2,000 mm = m
15) 8,000 cm = m
16) 5,000 mm = cm
17) 1,000 mm = cm
18) 4,000 cm = m
19) 7,000 mm = cm
20) 3,000 mm = cm

CHAPTER 6 - MEASUREMENTS - I

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 31 m = cm
2) 85 m = mm
3) 94 m = cm
4) 55 m = cm
5) 30 m = mm
6) 65 cm = mm
7) 14 m = mm
8) 56 m = cm
9) 11 cm = mm
10) 47 m = cm

Convert to the units shown:

11) 4,000 mm = m
12) 3,000 cm = m
13) 2,000 cm = m
14) 6,000 cm = m
15) 9,000 mm = cm
16) 1,000 mm = cm
17) 8,000 cm = m
18) 5,000 cm = m
19) 8,000 mm = cm
20) 7,000 mm = cm

CHAPTER 6 - MEASUREMENTS - I

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m)
1m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 96 cm = mm
2) 89 m = mm
3) 11 m = mm
4) 82 m = cm
5) 73 cm = mm
6) 13 m = mm
7) 39 m = mm
8) 12 m = cm
9) 23 m = cm
10) 97 m = cm

Convert to the units shown:

11) 7,000 cm = m
12) 4,000 cm = m
13) 2,000 mm = m
14) 8,000 mm = cm
15) 6,000 cm = m
16) 1,000 mm = cm
17) 3,000 cm = m
18) 6,000 mm = m
19) 5,000 cm = cm
20) 5,000 mm = m

CHAPTER 6 - MEASUREMENTS - I

Units of Length Word Problems

1) Arthur drew a blue line that is 12 inches long. He drew a red line that is 8 inches long. How long are both lines in all?

a. 14 inches
b. 20 inches
c. 18 inches
d. 4 inches

2) Chad's paintbrush is 4 inches long. Ed's paintbrush is 5 inches longer than Chad's. How long is Ed's paintbrush?

a. 9 inches
b. 1 inch
c. 7 inches
d. 8 inches

3) A whale is 78 feet long. A rhinoceros is 13 feet long. What is the difference in length between the whale and the rhinoceros?

a. 55 feet
b. 91 feet
c. 65 feet
d. 81 feet

4) A building is 60 meters tall. A tree near the building is 12 meters tall. how much taller is the building than the tree?

a. 72 meters
b. 38 meters
c. 52 meters
d. 48 meters

5) A beaver is 15 inches long. It grows 23 more inches. How long is the beaver now?

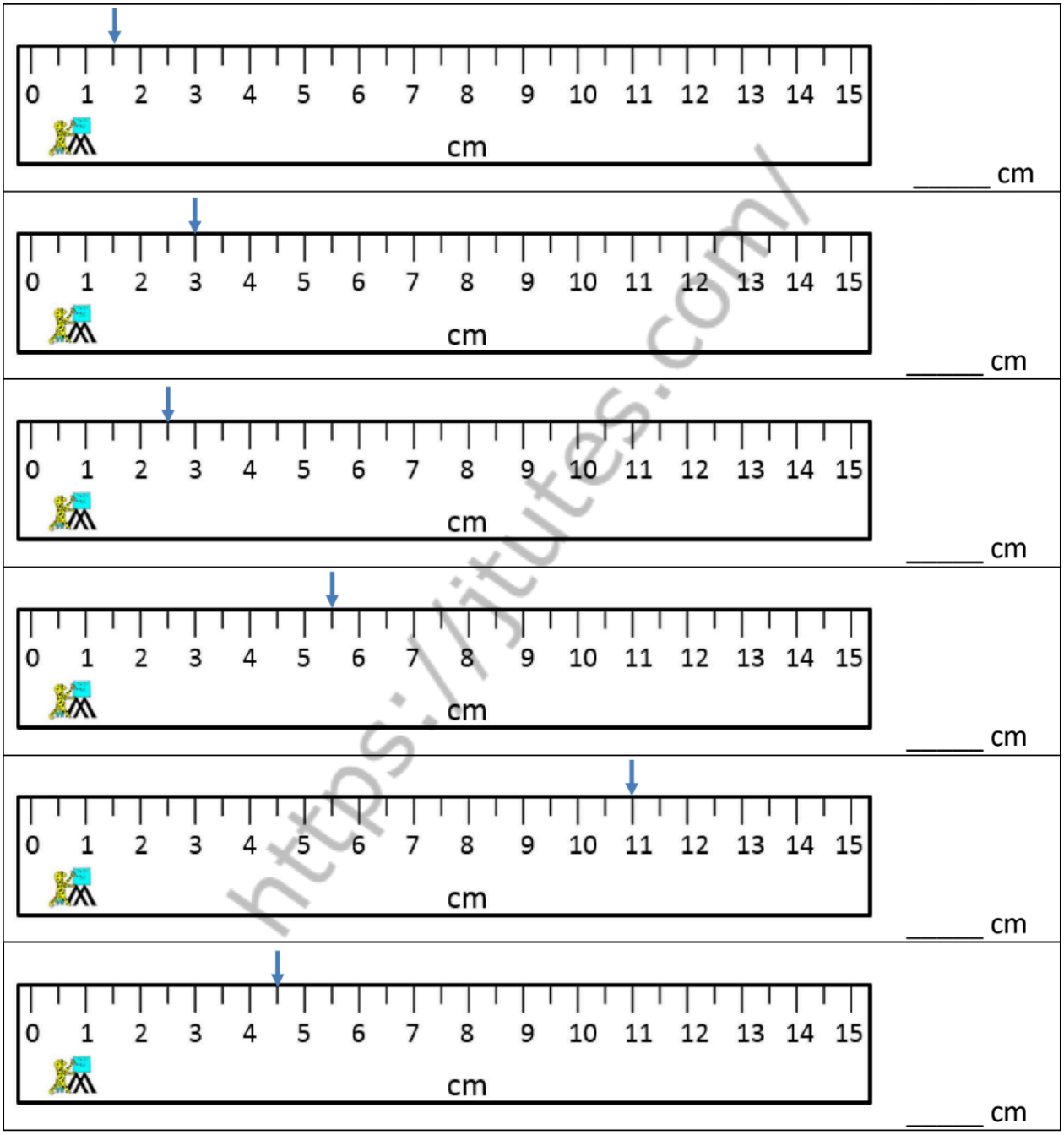
a. 38 inches
b. 28 inches
c. 12 inches
d. 48 inches

CHAPTER 7 - MEASUREMENTS - II

CHAPTER 7 - MEASUREMENTS - II

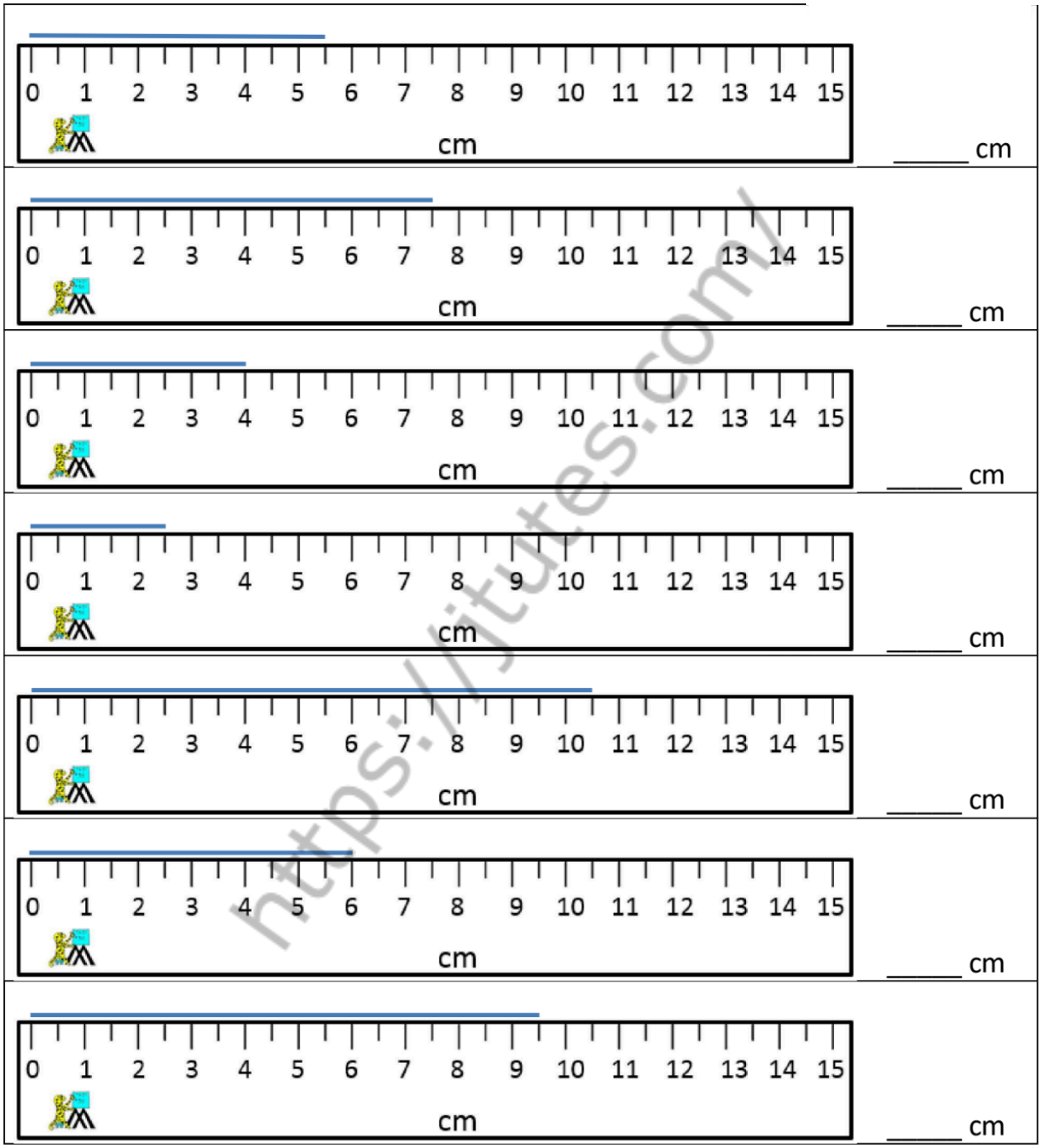
How many cm (halves) sheet 1

How many cm does the arrow show?



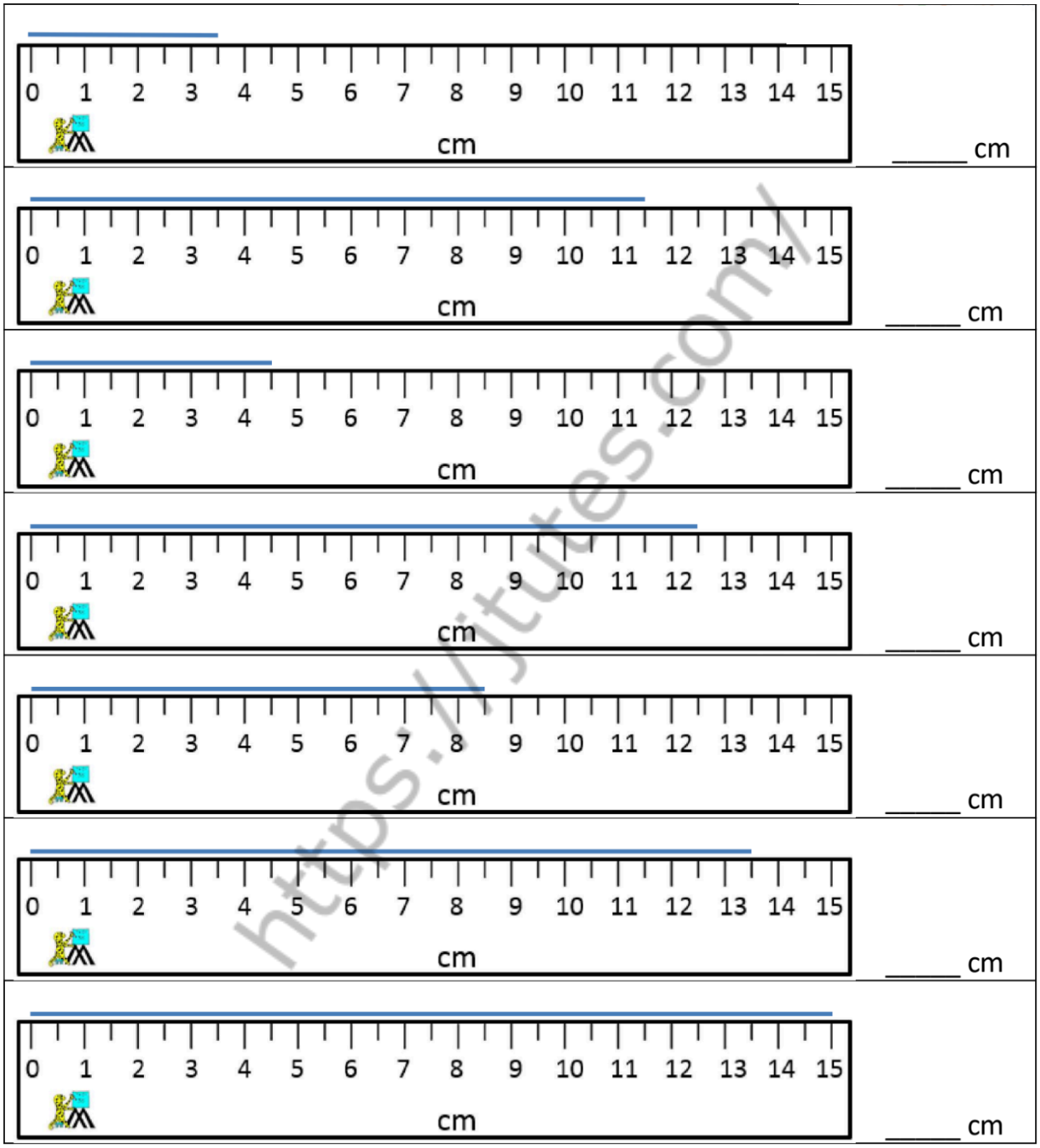
CHAPTER 7 - MEASUREMENTS - II

Measure the line (cm-halves) sheet 1



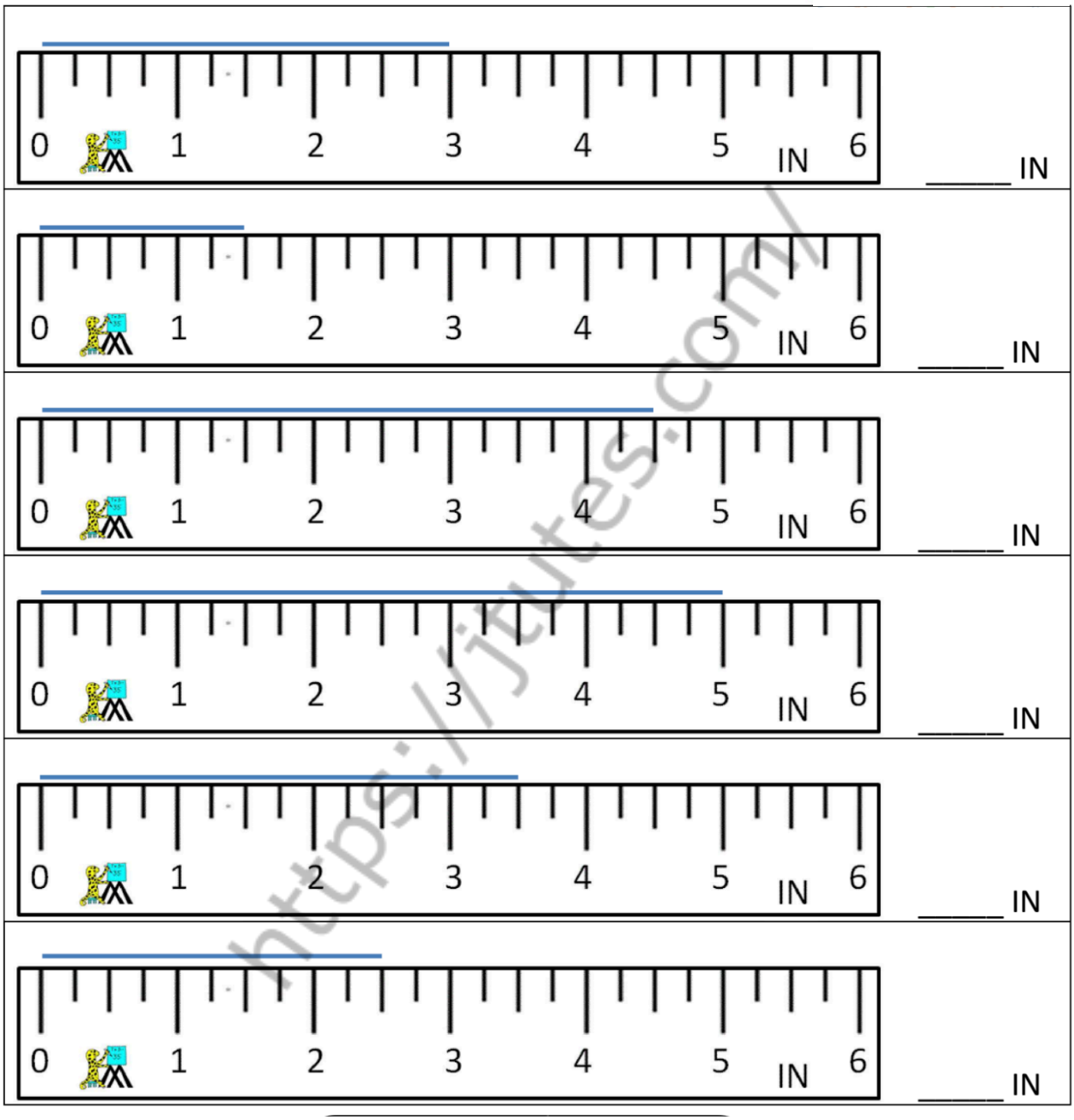
CHAPTER 7 - MEASUREMENTS - II

Measure the line (cm-halves) sheet 2



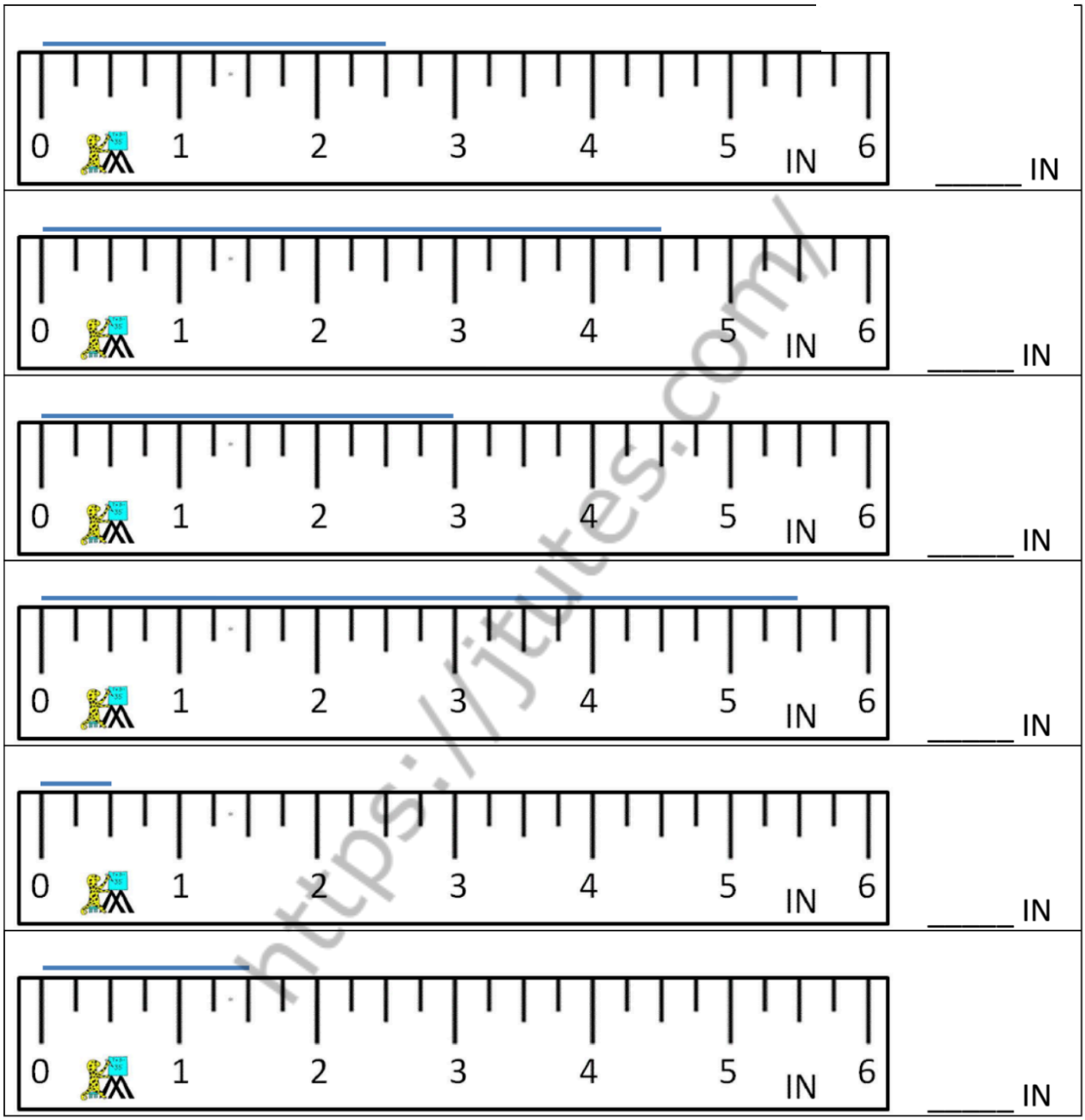
CHAPTER 7 - MEASUREMENTS - II

Measure the line (inches-halves) sheet 1



CHAPTER 7 - MEASUREMENTS - II

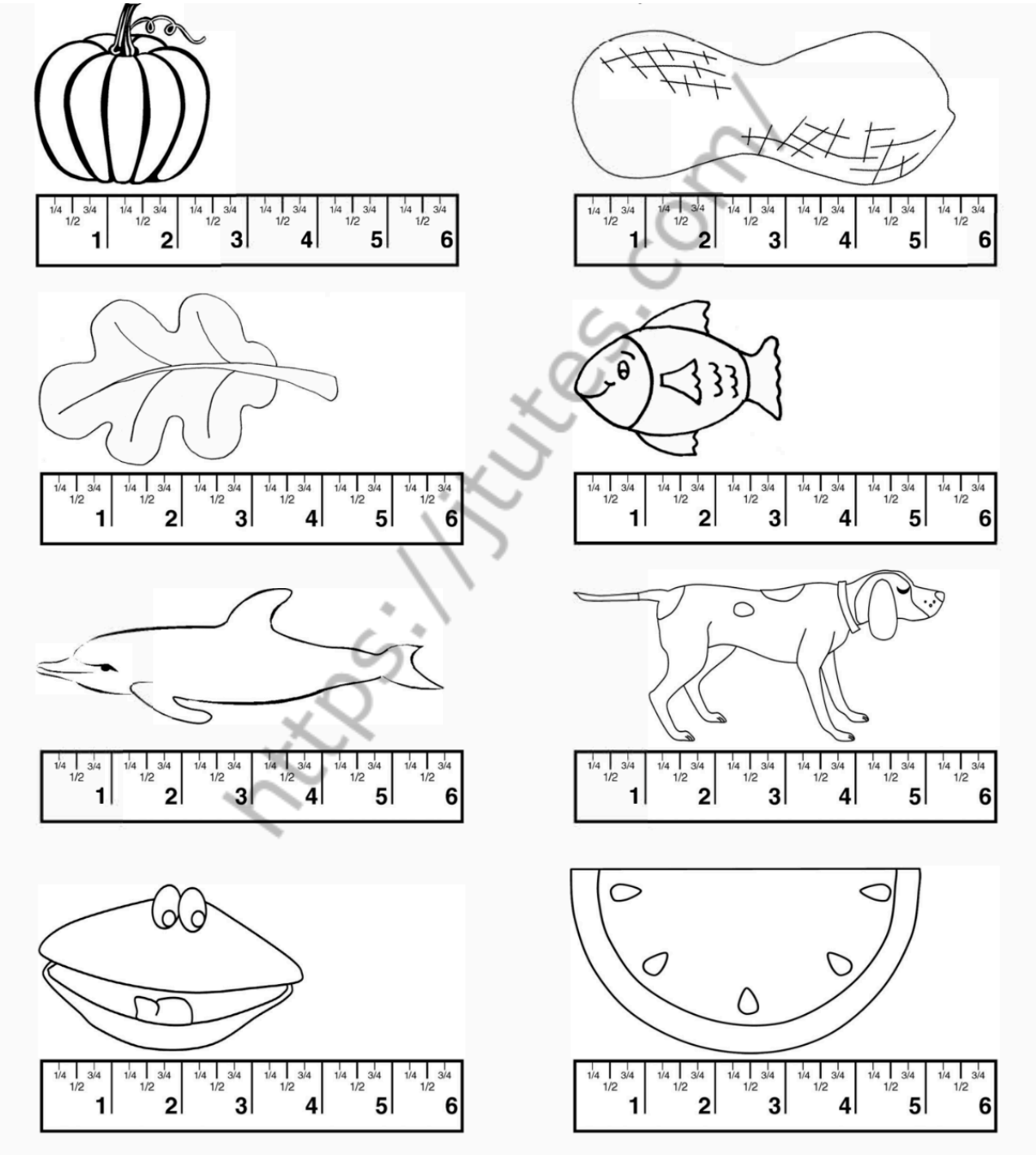
Measure the line (inches-halves) sheet 2



CHAPTER 7 - MEASUREMENTS - II

How long is it?

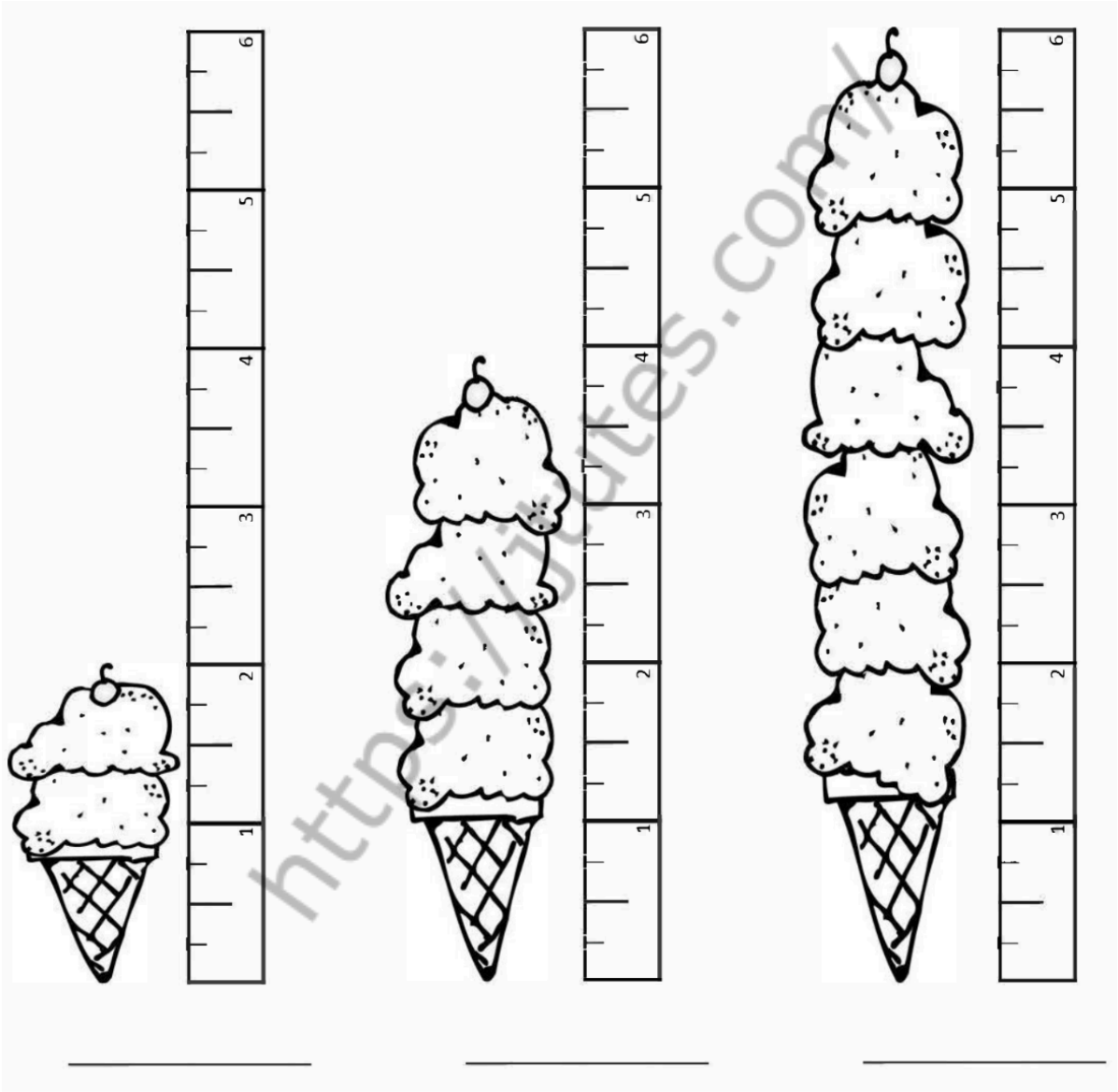
Use the rulers to measure each object to the nearest 1/4 inch. Mark your answer on the ruler and write it next to the object. Good luck!



CHAPTER 7 - MEASUREMENTS - II

Measurement

Directions: About how many inches long is each ice cream cone?

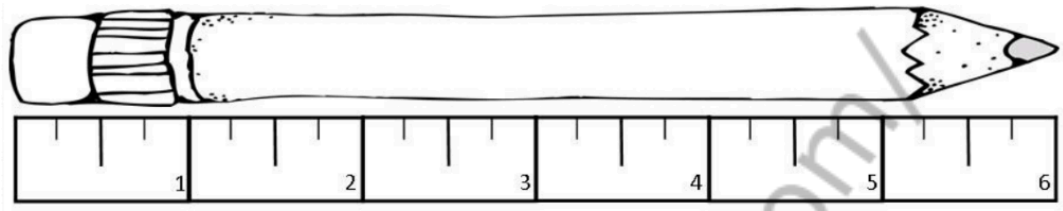


CHAPTER 7 - MEASUREMENTS - II

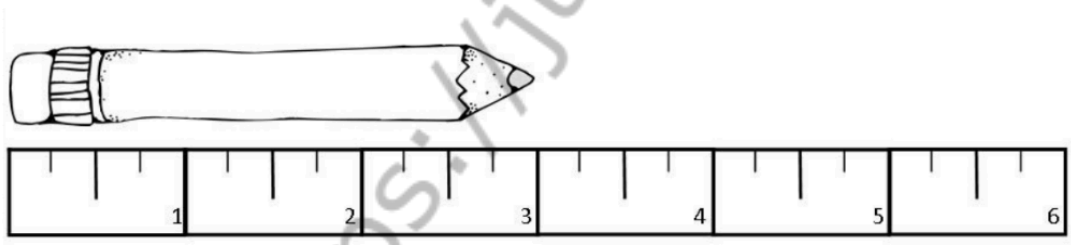
Measurement

Directions: How many inches long is each pencil?

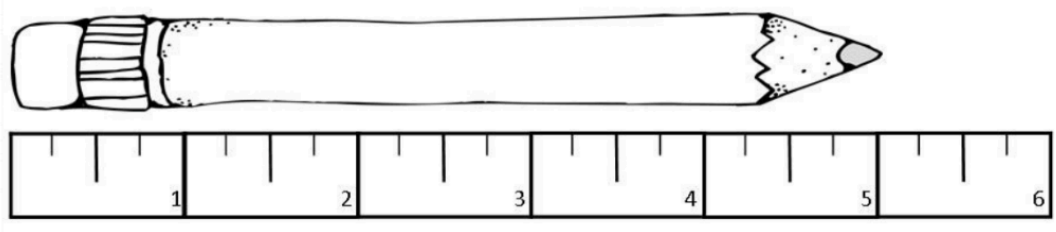
1) _____ inches long



2) _____ inches long



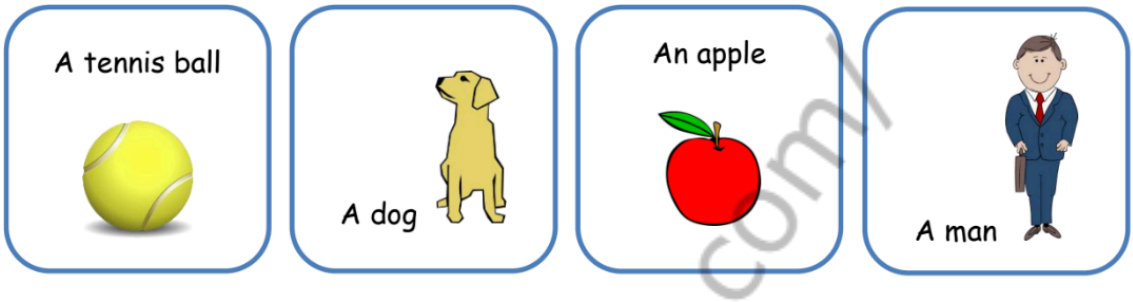
3) _____ inches long



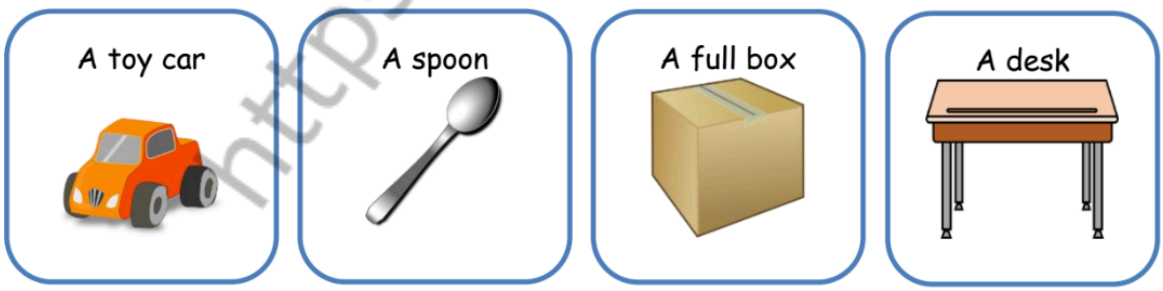
CHAPTER 7 - MEASUREMENTS - II

Units of weight - grams & kilograms

Match the proper unit of measurement with the objects by drawing lines from the object to the unit.



GRAMS	KILOGRAMS

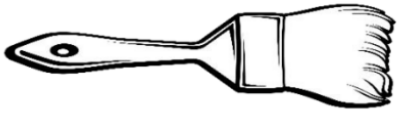


Note: We measure lighter objects (like pencils) in grams and heavier objects (like a printer) in kilograms.

CHAPTER 7 - MEASUREMENTS - II

Metric units of weight: grams (g) and kilograms (kg)

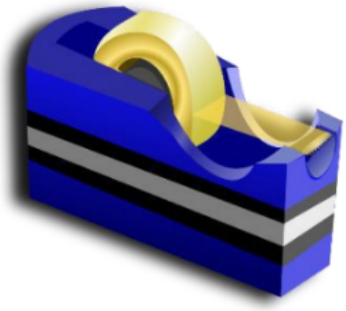
Fill in the proper unit (g or kg) for the weight of each object.
Hint: 1 kilogram = 1,000 grams

A sundae: 250 _____ 	A hammer: 2 _____ 
A boy: 20 _____ 	An alarm clock: 450 _____ 
A paintbrush: 150 _____ 	A picture frame: 1 _____ 

CHAPTER 7 - MEASUREMENTS - II

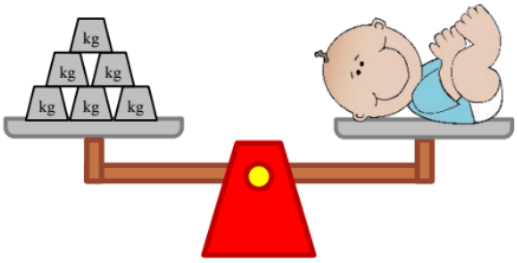
Metric units of weight: grams (g) and kilograms (kg)

Fill in the proper unit (g or kg) for the weight of each object.
Hint: 1 kilogram = 1,000 grams

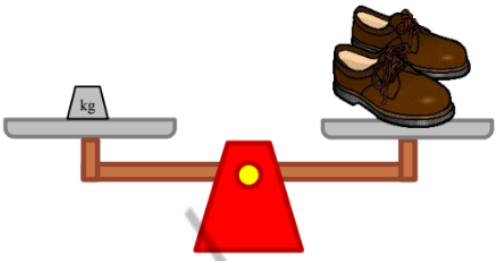
A tape dispenser: 780 _____ 	A bottle of soap: 1 _____ 
A book: 550 _____ 	A pair of scissors: 180 _____ 
A baby girl: 6 _____ 	A fridge: 15 _____ 

CHAPTER 7 - MEASUREMENTS - II

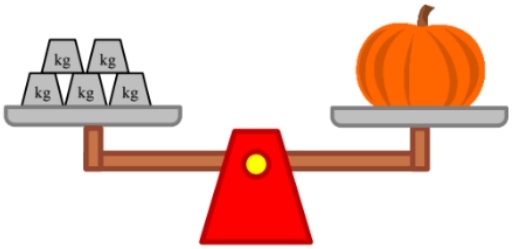
Measure weights with metric units (kilograms)



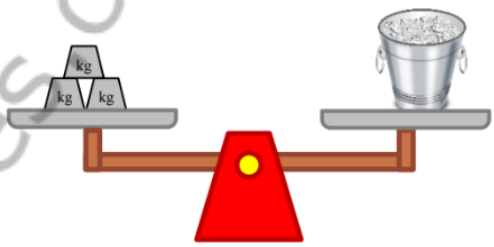
The baby weighs _____ kg.



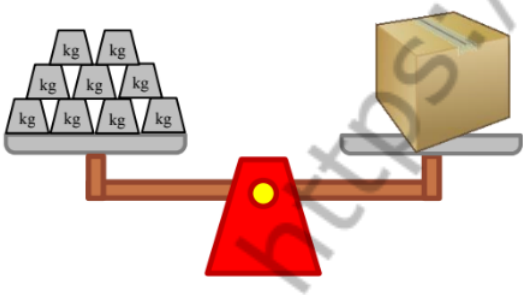
The pair of shoes weighs _____ kg.



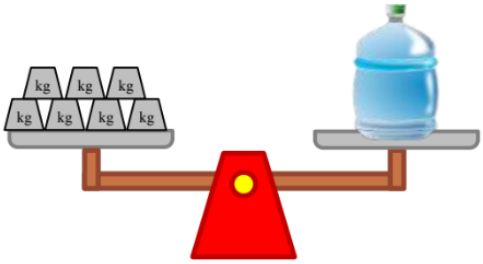
The pumpkin weighs _____ kg.



The ice bucket weighs _____ kg.



The box weighs _____ kg.



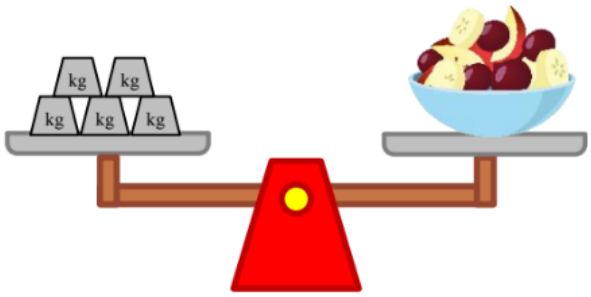
The water bottle weighs _____ kg.

Which object is the heaviest? _____

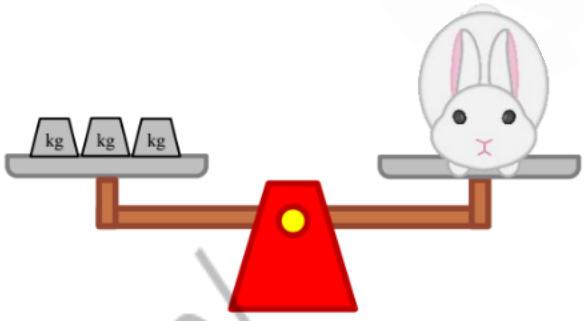
Which object is the lightest? _____

CHAPTER 7 - MEASUREMENTS - II

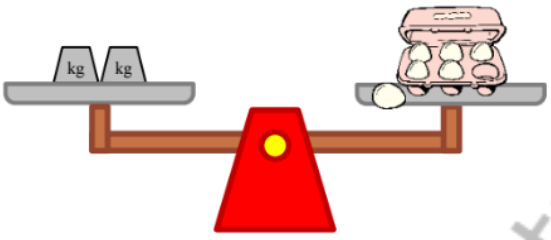
Measure weights with metric units (kilograms)



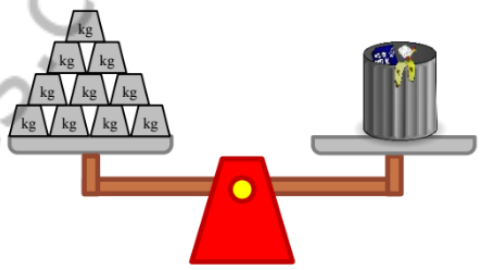
The fruit salad weighs _____ kg.



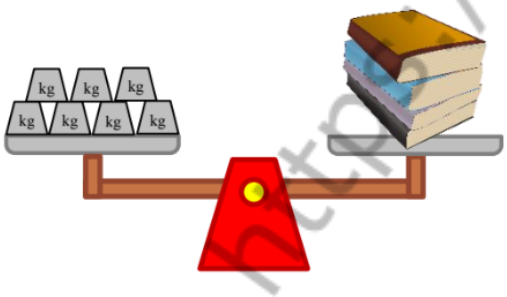
The rabbit weighs _____ kg.



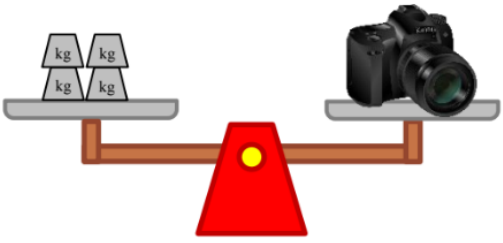
The carton of eggs weighs _____ kg.



The trashcan weighs _____ kg.



The stack of books weighs _____ kg.



The camera weighs _____ kg.

Which object is the heaviest? _____

Which object is the lightest? _____

CHAPTER 7 - MEASUREMENTS - II

Metric units of mass: kilograms and grams

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1) 32 kg = g
2) 68 kg = g
3) 6 kg = g
4) 52 kg = g
5) 49 kg = g
6) 77 kg = g
7) 42 kg = g
8) 7 kg = g
9) 60 kg = g
10) 39 kg = g

Convert grams to kilograms

11) 80,000 g = kg
12) 70,000 g = kg
13) 200,000 g = kg
14) 400,000 g = kg
15) 40,000 g = kg
16) 20,000 g = kg
17) 30,000 g = kg
18) 10,000 g = kg
19) 90,000 g = kg
20) 300,000 g = kg

CHAPTER 7 - MEASUREMENTS - II

Metric units of mass: kilograms and grams

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1) 6 kg = g
2) 31 kg = g
3) 74 kg = g
4) 5 kg = g
5) 4 kg = g
6) 24 kg = g
7) 19 kg = g
8) 50 kg = g
9) 38 kg = g
10) 83 kg = g

Convert grams to kilograms

11) 300,000 g = kg
12) 20,000 g = kg
13) 70,000 g = kg
14) 40,000 g = kg
15) 50,000 g = kg
16) 200,000 g = kg
17) 50,000 g = kg
18) 400,000 g = kg
19) 100,000 g = kg
20) 60,000 g = kg

CHAPTER 7 - MEASUREMENTS - II

Metric units of mass: kilograms and grams

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1) 75 kg = g
2) 48 kg = g
3) 43 kg = g
4) 10 kg = g
5) 81 kg = g
6) 59 kg = g
7) 5 kg = g
8) 23 kg = g
9) 8 kg = g
10) 26 kg = g

Convert grams to kilograms

11) 300,000 g = kg
12) 200,000 g = kg
13) 400,000 g = kg
14) 80,000 g = kg
15) 60,000 g = kg
16) 30,000 g = kg
17) 20,000 g = kg
18) 100,000 g = kg
19) 90,000 g = kg
20) 40,000 g = kg

CHAPTER 7 - MEASUREMENTS - II

Metric units of mass: kilograms and grams

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1) 16 kg = g
2) 6 kg = g
3) 8 kg = g
4) 2 kg = g
5) 4 kg = g
6) 50 kg = g
7) 83 kg = g
8) 99 kg = g
9) 69 kg = g
10) 7 kg = g

Convert grams to kilograms

11) 200,000 g = kg
12) 300,000 g = kg
13) 80,000 g = kg
14) 100,000 g = kg
15) 400,000 g = kg
16) 10,000 g = kg
17) 40,000 g = kg
18) 70,000 g = kg
19) 60,000 g = kg
20) 50,000 g = kg

CHAPTER 7 - MEASUREMENTS - II

Metric units of mass: kilograms and grams

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1) 58 kg = g
2) 16 kg = g
3) 6 kg = g
4) 57 kg = g
5) 45 kg = g
6) 3 kg = g
7) 67 kg = g
8) 4 kg = g
9) 21 kg = g
10) 86 kg = g

Convert grams to kilograms

11) 20,000 g = kg
12) 200,000 g = kg
13) 400,000 g = kg
14) 40,000 g = kg
15) 80,000 g = kg
16) 100,000 g = kg
17) 300,000 g = kg
18) 70,000 g = kg
19) 30,000 g = kg
20) 60,000 g = kg

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Match the proper unit of measurement with the objects by drawing lines from the objects to the unit.

Liters	Milliliters

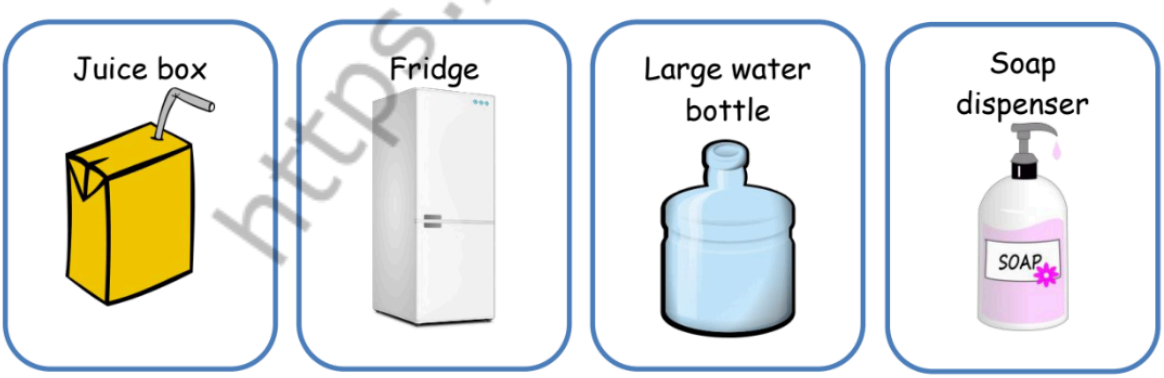
Note: We measure smaller containers (like cups or spoons) in milliliters (mL) and bigger containers in liters (L).

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Match the proper units of capacity with the objects by drawing lines.

Liters	Milliliters



Note: We measure smaller containers in milliliters and bigger containers in liters.

CHAPTER 7 - MEASUREMENTS - II

Estimate the volume of containers (liters)

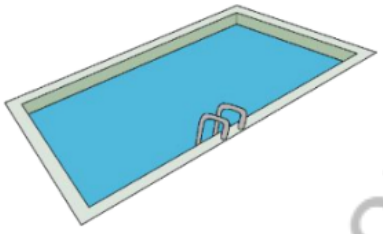
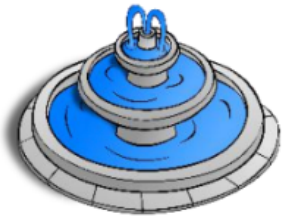
Circle the best estimate of capacity of each container.

A wine glass 	A teapot 	A backpack 
Less than 1L / About 1L / More than 1L	Less than 1L / About 1L / More than 1L	Less than 1L / About 1L / More than 1L
A milk carton	A mug 	A pitcher 
Less than 1L / About 1L / More than 1L	Less than 1L / About 1L / More than 1L	Less than 1L / About 1L / More than 1L
Juice box 	Fridge 	Four glasses of juice 
Less than 1L / About 1L / More than 1L	Less than 1L / About 1L / More than 1L	Less than 1L / About 1L / More than 1L

CHAPTER 7 - MEASUREMENTS - II

Capacity: More or less than 1 liter?

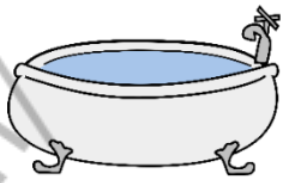
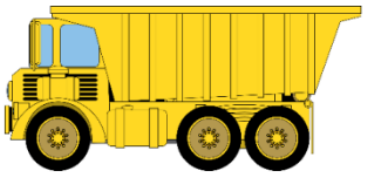
Does it hold more or less than 1 liter? Circle the correct answer. Hint: 1 liter = 1000 mL

A bottle of hand soap 	A swimming pool 	A salt shaker 
Less than / More than	Less than / More than	Less than / More than
A backpack 	A glass 	An aquarium 
Less than / More than	Less than / More than	Less than / More than
Water fountain 	Paper cup 	Ketchup bottle 
Less than / More than	Less than / More than	Less than / More than

CHAPTER 7 - MEASUREMENTS - II

Capacity: More or less than 1 liter?

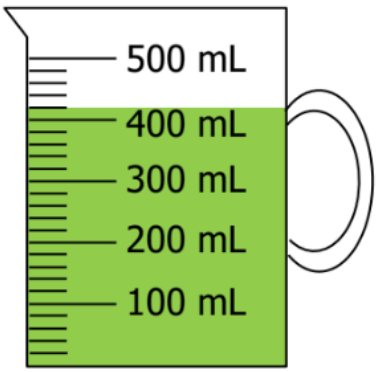
Does it hold more or less than 1 liter? Circle the correct answer. Hint: 1 liter = 1000 mL

A coffee cup 	A spoon 	A bathtub 
Less than / More than	Less than / More than	Less than / More than
A tube of sunscreen 	A mug 	A yogurt cup 
Less than / More than	Less than / More than	Less than / More than
Juice box 	Dump truck 	Milk carlton
Less than / More than	Less than / More than	Less than / More than

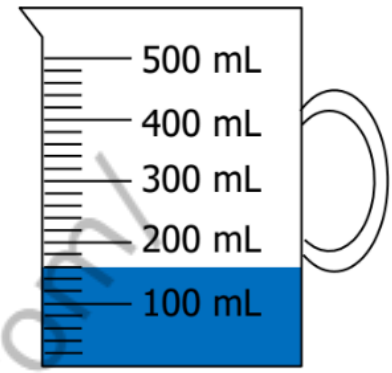
CHAPTER 7 - MEASUREMENTS - II

Reading a measuring cup (metric)

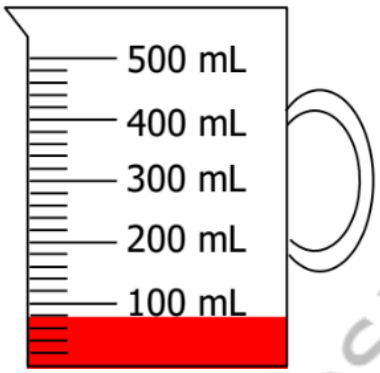
Find the volume of the juice in milliliters (mL) in the following measuring cups.



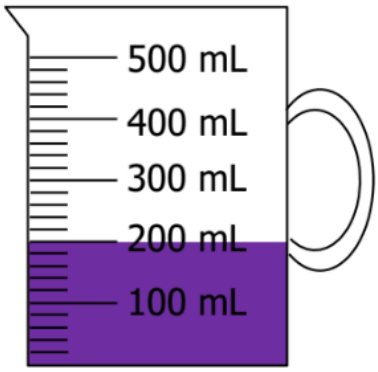
1) _____ mL



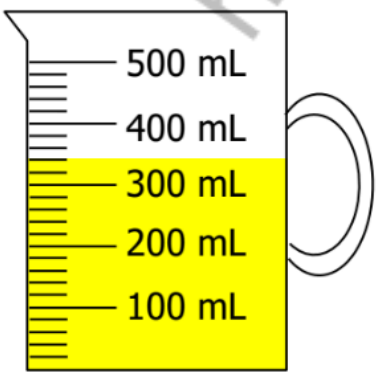
2) _____ mL



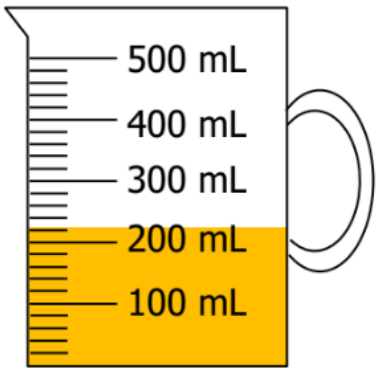
3) _____ mL



4) _____ mL



5) _____ mL



6) _____ mL

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Note: 1 liter (L) = 1,000 milliliter (mL)

Convert litres to milliliters

1) 5 L = mL
2) 22 L = mL
3) 28 L = mL
4) 27 L = mL
5) 9 L = mL
6) 78 L = mL
7) 34 L = mL
8) 42 L = mL
9) 87 L = mL
10) 84 L = mL

Convert milliliters to liters

11) 30,000 mL = L
12) 7,000 mL = L
13) 10,000 mL = L
14) 6,000 mL = L
15) 1,000 mL = L
16) 5,000 mL = L
17) 2,000 mL = L
18) 4,000 mL = L
19) 8,000 mL = L
20) 40,000 mL = L

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Note: 1 liter (L) = 1,000 milliliter (mL)

Convert litres to milliliters

1) 49 L = mL
2) 55 L = mL
3) 43 L = mL
4) 7 L = mL
5) 66 L = mL
6) 89 L = mL
7) 4 L = mL
8) 3 L = mL
9) 99 L = mL
10) 31 L = mL

Convert milliliters to liters

11) 30,000 mL = L
12) 2,000 mL = L
13) 6,000 mL = L
14) 10,000 mL = L
15) 20,000 mL = L
16) 5,000 mL = L
17) 40,000 mL = L
18) 9,000 mL = L
19) 1,000 mL = L
20) 4,000 mL = L

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Note: 1 liter (L) = 1,000 milliliter (mL)

Convert litres to milliliters

1) 90 L = mL
2) 4 L = mL
3) 45 L = mL
4) 44 L = mL
5) 61 L = mL
6) 16 L = mL
7) 5 L = mL
8) 3 L = mL
9) 8 L = mL
10) 9 L = mL

Convert milliliters to liters

11) 20,000 mL = L
12) 4,000 mL = L
13) 2,000 mL = L
14) 40,000 mL = L
15) 7,000 mL = L
16) 5,000 mL = L
17) 30,000 mL = L
18) 10,000 mL = L
19) 9,000 mL = L
20) 3,000 mL = L

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Note: 1 liter (L) = 1,000 milliliter (mL)

Convert litres to milliliters

1) 65 L = mL
2) 71 L = mL
3) 4 L = mL
4) 7 L = mL
5) 5 L = mL
6) 13 L = mL
7) 23 L = mL
8) 15 L = mL
9) 9 L = mL
10) 88 L = mL

Convert milliliters to liters

11) 30,000 mL = L
12) 2,000 mL = L
13) 3,000 mL = L
14) 6,000 mL = L
15) 20,000 mL = L
16) 9,000 mL = L
17) 1,000 mL = L
18) 7,000 mL = L
19) 8,000 mL = L
20) 40,000 mL = L

CHAPTER 7 - MEASUREMENTS - II

Metric units of capacity: liters and milliliters

Note: 1 liter (L) = 1,000 milliliter (mL)

Convert litres to milliliters

1) 53 L = mL
2) 77 L = mL
3) 3 L = mL
4) 3 L = mL
5) 17 L = mL
6) 6 L = mL
7) 20 L = mL
8) 55 L = mL
9) 32 L = mL
10) 66 L = mL

Convert milliliters to liters

11) 40,000 mL = L
12) 9,000 mL = L
13) 20,000 mL = L
14) 5,000 mL = L
15) 30,000 mL = L
16) 8,000 mL = L
17) 2,000 mL = L
18) 1,000 mL = L
19) 6,000 mL = L
20) 7,000 mL = L

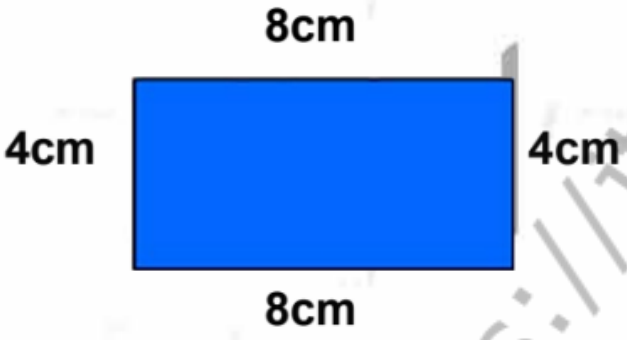
CHAPTER 8 - PERIMETER

CHAPTER 8 - PERIMETER

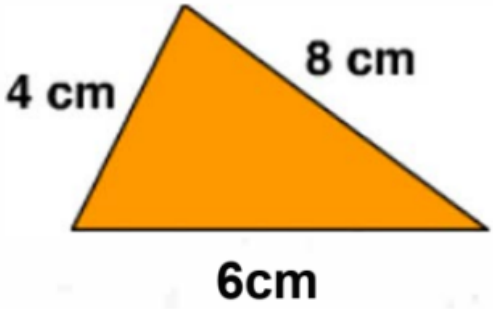
Perimeter

The perimeter of a shape is the sum of the length of all its sides.

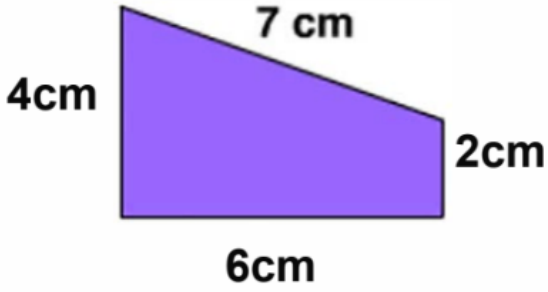
Adding the length of sides



P = 4 + 8 + 4 +8
= 24 cm



P = 4 + 8 + 6
= 18 cm

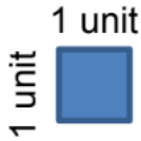


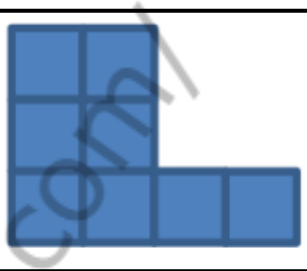
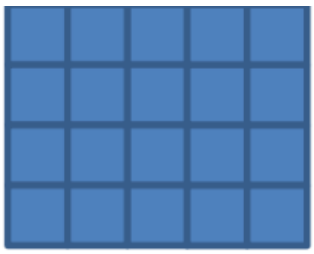
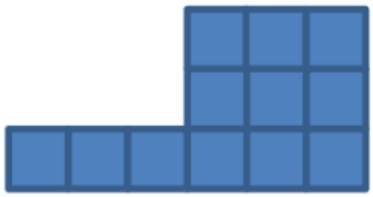
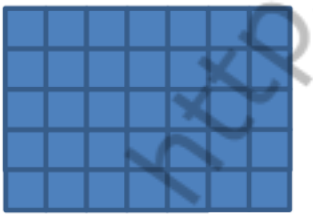
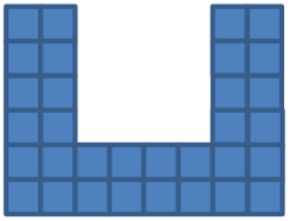
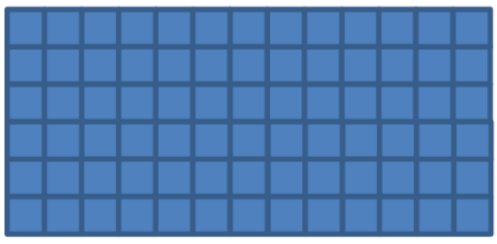
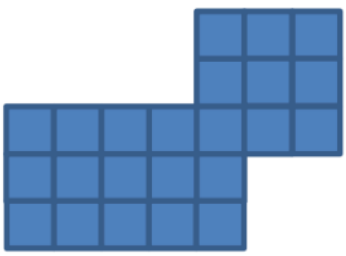
P = 4 + 7 + 2 + 6
= 19 cm

CHAPTER 8 - PERIMETER

Perimeters of rectangular shapes

If each of the square is 1 unit by 1 unit (shown below), find the perimeter for the shapes shown below.

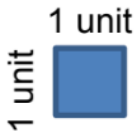


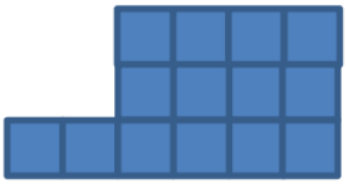
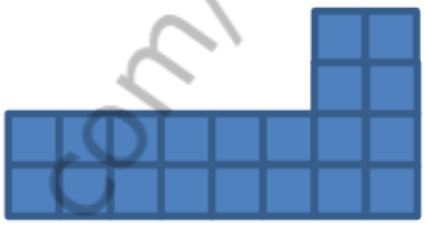
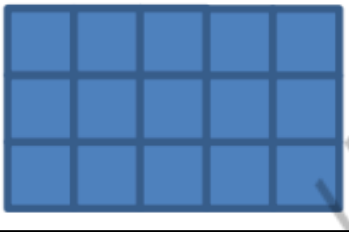
	
_____	_____
	
_____	_____
	
_____	_____
	
_____	_____

CHAPTER 8 - PERIMETER

Perimeters of rectangular shapes

If each of the square is 1 unit by 1 unit (shown below), find the perimeter for the shapes shown below.



	
_____	_____
	
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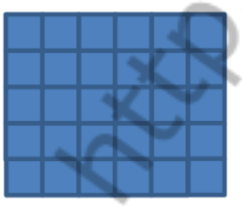	
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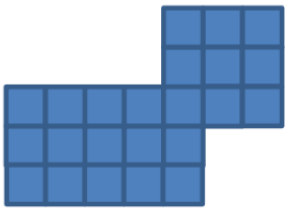	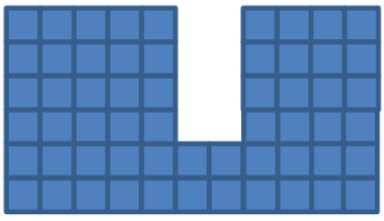
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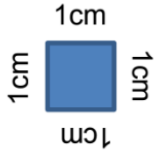
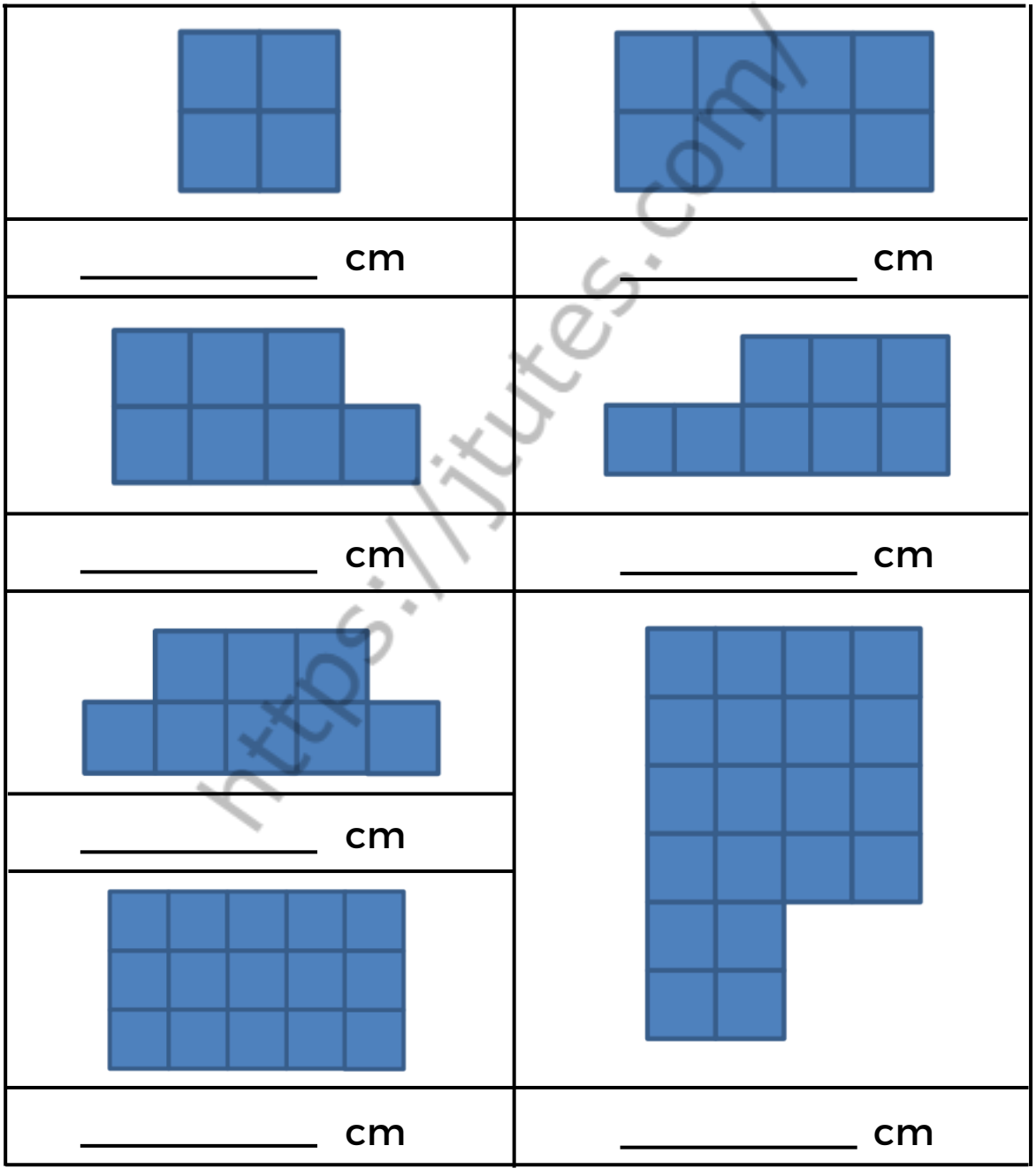
CHAPTER 8 - PERIMETER

Perimeters of rectangular shapes on a rectangular grid

If each of the square is 1 cm by 1 cm (shown below), find the perimeter for the shapes shown below.

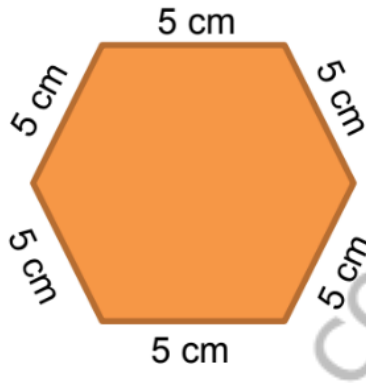


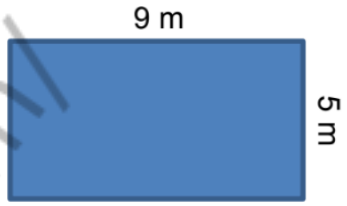


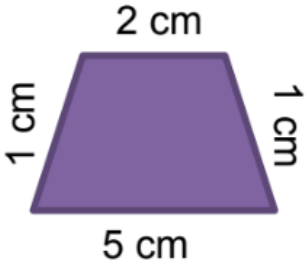
CHAPTER 8 - PERIMETER

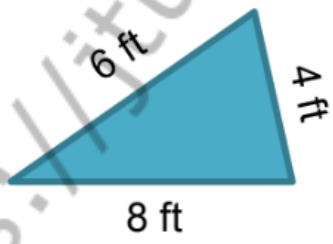
Perimeters of common shapes

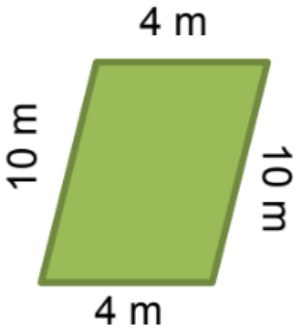
Find the perimeter of the shapes shown below.

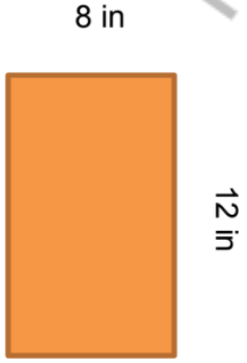


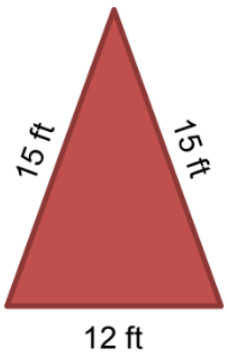


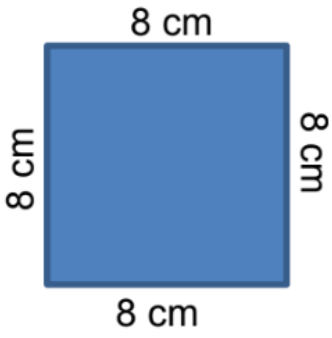








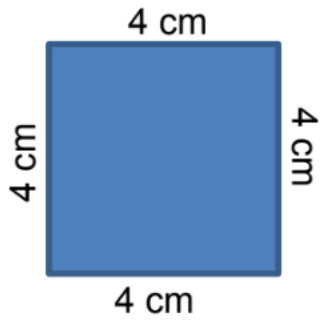


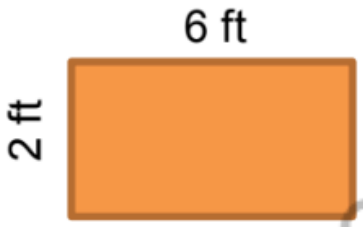


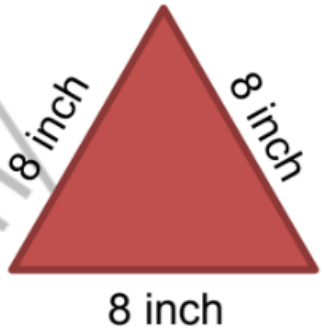
CHAPTER 8 - PERIMETER

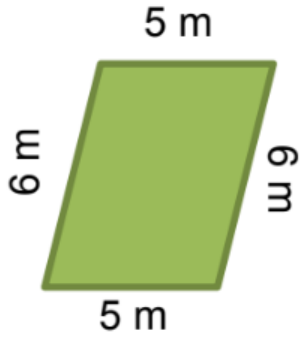
Perimeters of common shapes

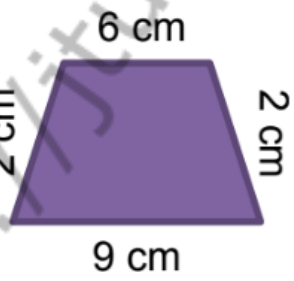
Find the perimeter of the shapes shown below.

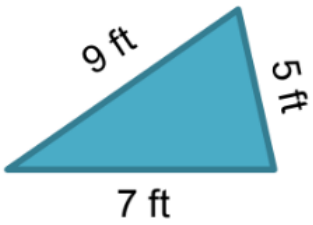


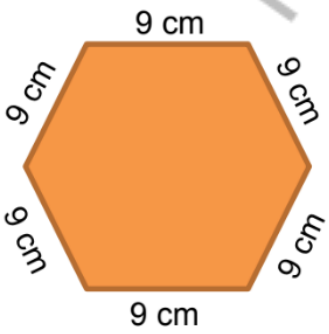


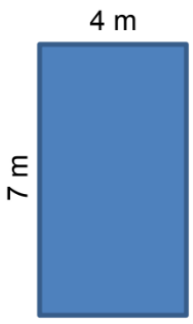


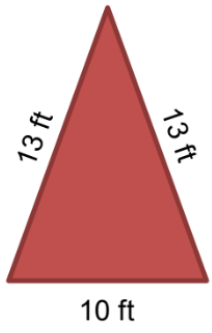








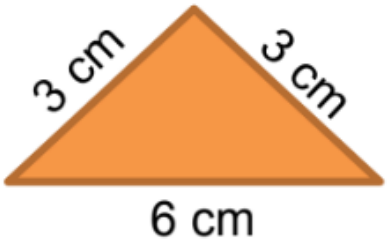




CHAPTER 8 - PERIMETER

Perimeters of irregular shapes

Find the perimeter of the shapes shown below.



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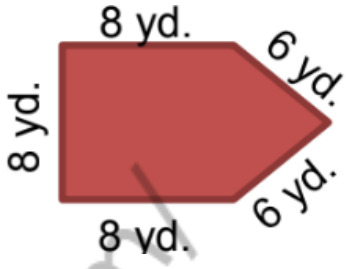

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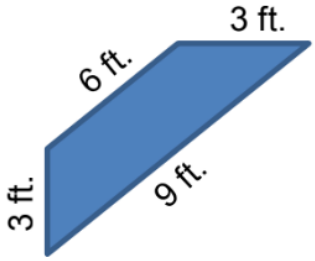

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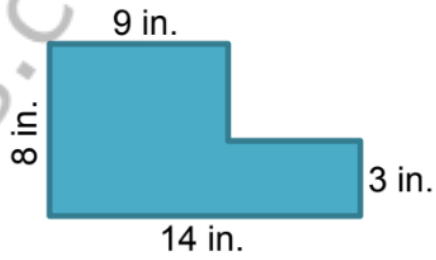

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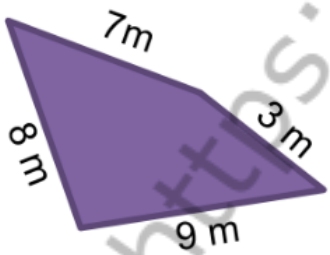

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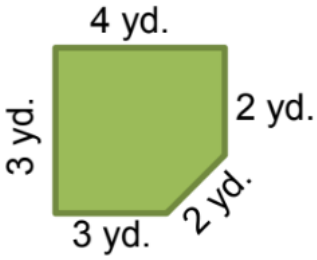

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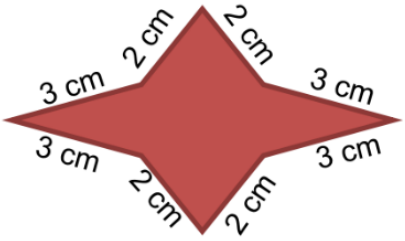

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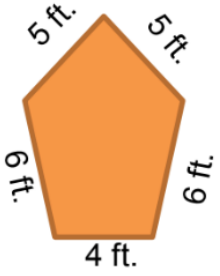

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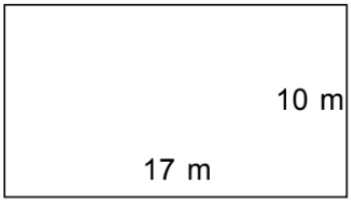
CHAPTER 8 - PERIMETER

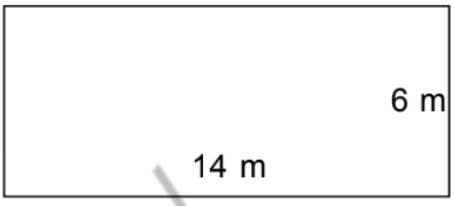
Perimeters of rectangles

Find the perimeter of each rectangle.

1)

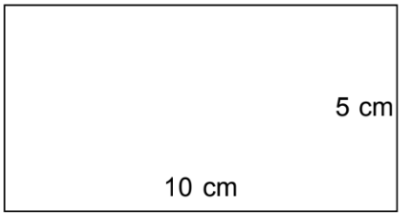


2)



3)

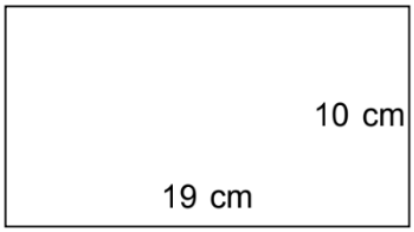
4)

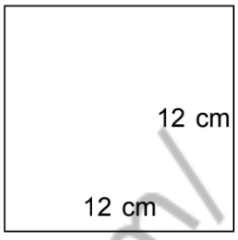


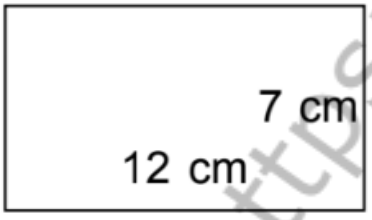
CHAPTER 8 - PERIMETER

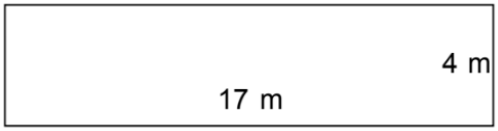
Perimeters of rectangles

Find the perimeter of each rectangle.

5) 

6) 

7) 

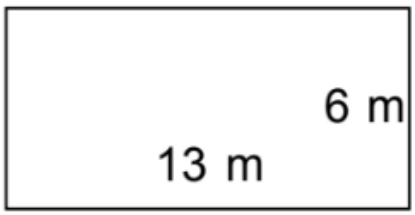
8) 

CHAPTER 8 - PERIMETER

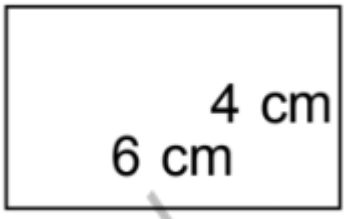
Perimeters of rectangles

Find the perimeter of each rectangle.

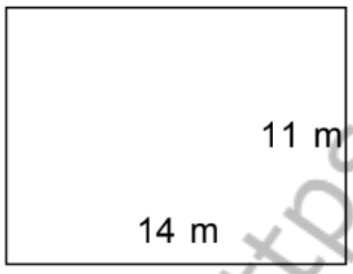
1)



2)



3)



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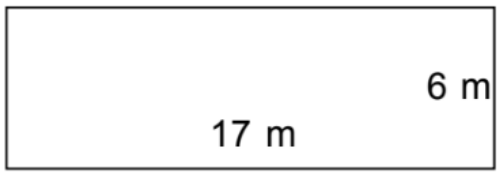
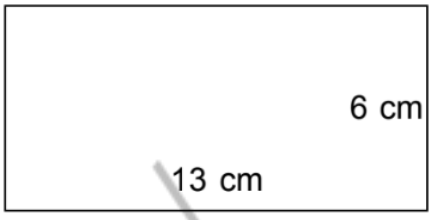


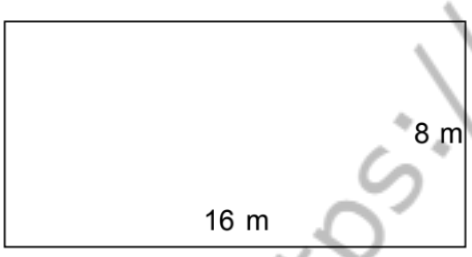
CHAPTER 8 - PERIMETER

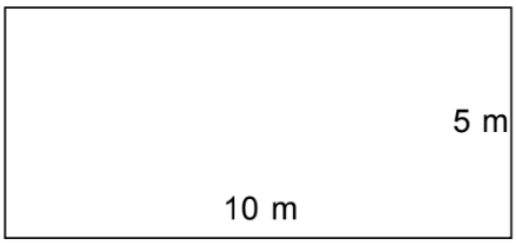
Perimeters of rectangles

Find the perimeter of each rectangle.

5) 

6) 

7) 

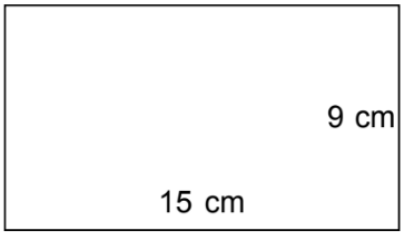
8) 

CHAPTER 8 - PERIMETER

Perimeters of rectangles

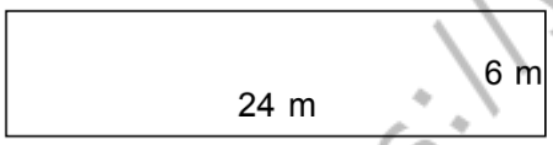
Find the perimeter of each rectangle.

1)

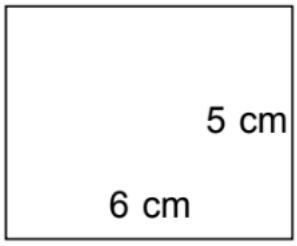


2)

3)



4)



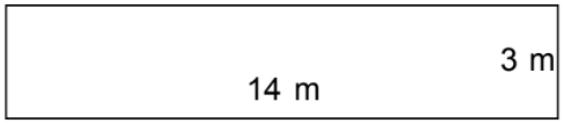
CHAPTER 8 - PERIMETER

Perimeters of rectangles

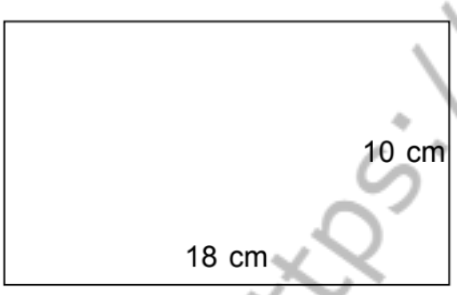
Find the perimeter of each rectangle.

5)

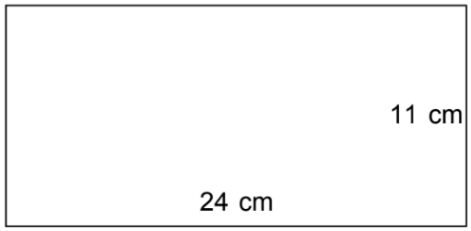
6)



7)



8)

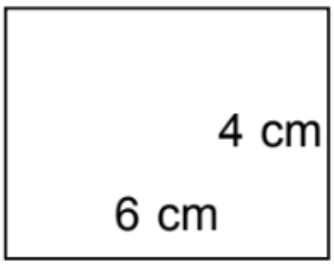


CHAPTER 8 - PERIMETER

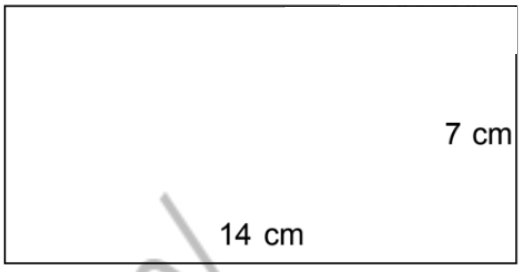
Perimeters of rectangles

Find the perimeter of each rectangle.

1)

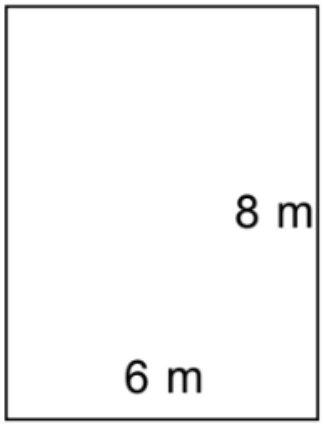


2)



3)

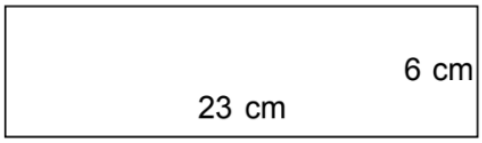
4)

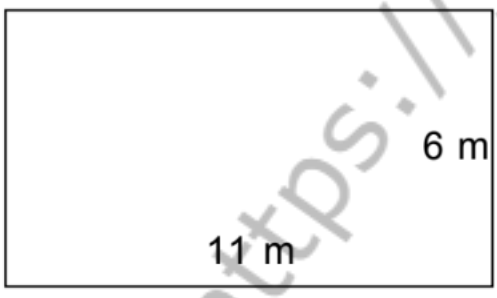


CHAPTER 8 - PERIMETER

Perimeters of rectangles

Find the perimeter of each rectangle.

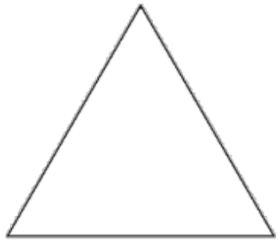
5) 

6) 

CHAPTER 8 - PERIMETER

Perimeters of Polygons

1) One side of an equilateral triangle is 5 centimeters long. What is the perimeter of the triangle?



a. 5 centimeters
b. 10 centimeters
c. 15 centimeters
d. 25 centimeters

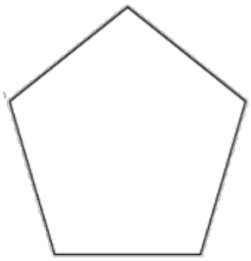
2) A square has a side length of 3 inches. What is the perimeter of the square?

a. 3 inches
b. 6 inches
c. 8 inches
d. 12 inches

3) A rectangular classroom has a width of 6 yards and a length of 8 yards. What is the perimeter of the classroom?

a. 14 yards
b. 28 yards
c. 48 yards
d. 96 yards

4) Each side of a pentagon measures 6 inches. What is the perimeter of the pentagon?

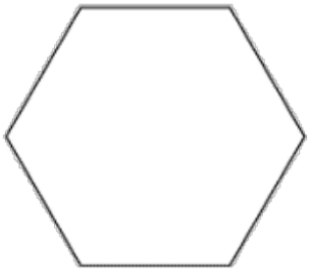


a. 24 inches
b. 25 inches
c. 30 inches
d. 36 inches

CHAPTER 8 - PERIMETER

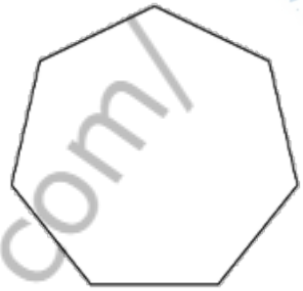
Perimeters of Polygons

5) A hexagon has equal side lengths of 2 feet. What is the perimeter of the hexagon?



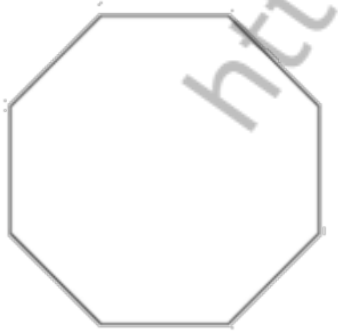
a. 12 feet
b. 14 feet
c. 16 feet
d. 18 feet

6) If each side of the polygon measures 3 inches, what is its perimeter?



a. 12 inches
b. 15 inches
c. 18 inches
d. 21 inches

7) If each side of the polygon is 4 centimeters long, what is the perimeter of the polygon?



a. 24 centimeters
b. 28 centimeters
c. 32 centimeters
d. 36 centimeters

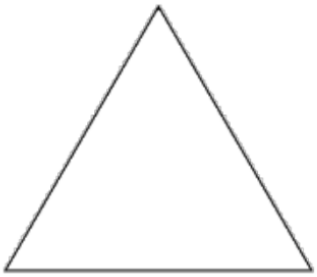
8) John wants to build a rectangular garden in his backyard. He needs to know how much fencing he will need to buy if his garden measures 4 feet by 6 feet. Help John by finding the perimeter of the garden.

a. 24 feet
b. 20 feet
c. 16 feet
d. 10 feet

CHAPTER 8 - PERIMETER

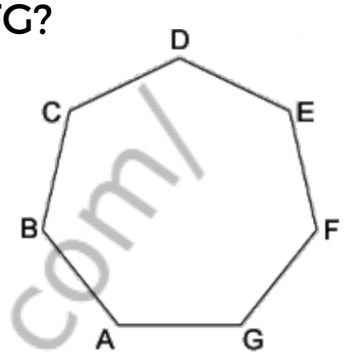
Perimeters of Polygons

9) What is the perimeter of the equilateral triangle if one side is 15 feet?



a. 15 feet
b. 30 feet
c. 45 feet
d. 75 feet

10) The perimeter of regular heptagon ABCDEFG is 14. What is the length of side FG?

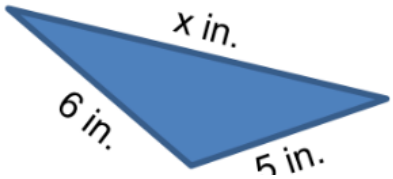
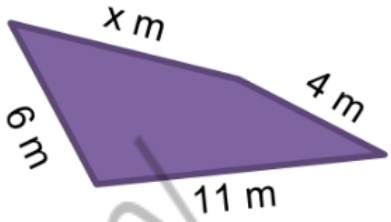


a. 1
b. 2
c. 6
d. 7

CHAPTER 8 - PERIMETER

Perimeters of irregular shapes (missing sides)

Find the length of the side marked with an "X"

<table>
<tr><td> 
</td><td> 
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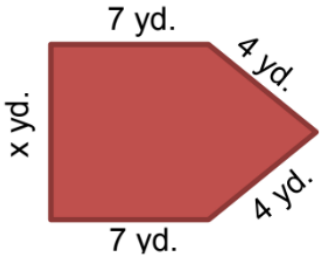
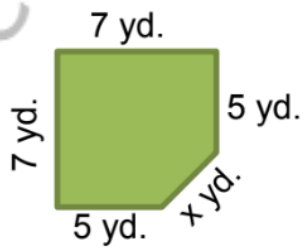
<tr><td>If perimeter = 19 in., x = _____</td><td>If perimeter = 28 m, x = _____</td></tr>
<tr><td> 
</td><td> 
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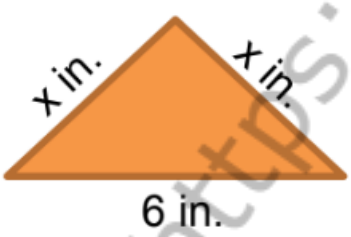
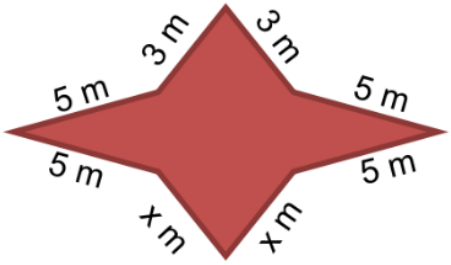
<tr><td>If perimeter = 28 yd., x =_____</td><td>If perimeter = 27 yd., x =_____</td></tr>
<tr><td> 
</td><td> 
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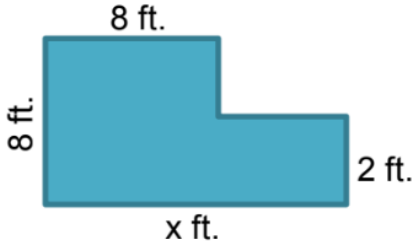
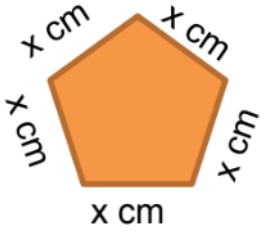
<tr><td>If perimeter = 16 in., x = _____</td><td>If perimeter = 34 m, x = _____</td></tr>
<tr><td> 
</td><td> 
</td></tr>
<tr><td>If perimeter = 40 ft., x = _____</td><td>If perimeter = 45 cm., x =_____</td></tr>
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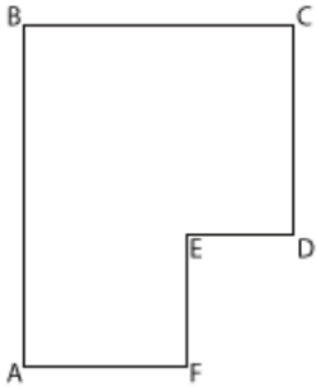
CHAPTER 8 - PERIMETER

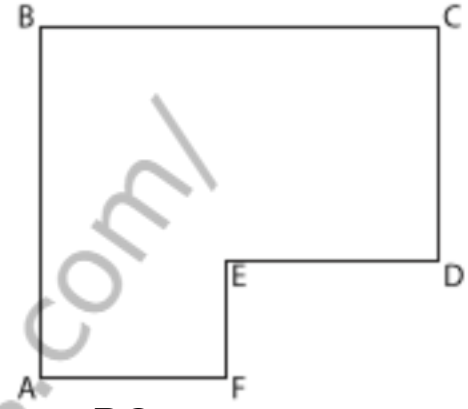
Perimeter - Finding Side Lengths

1) If BC = 15 and ED = 6, which side length can be found?



a. AB
b. CD
c. FE
d. AF

2) If AB = 6 and CD = 4, which side length can be calculated?

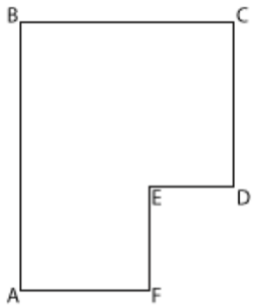


a. BC
b. ED
c. FE
d. AF

3) Perimeter = 36
AB = 8
BC = 10
CD = 6
ED = 5
EF = 2
What is the length of side AF

a. 5
b. 6
c. 7
d. 8

4) Perimeter = 30
BC = 6
CD = 6
ED = 2
EF = 3
AF = 4
What is the length of AB?

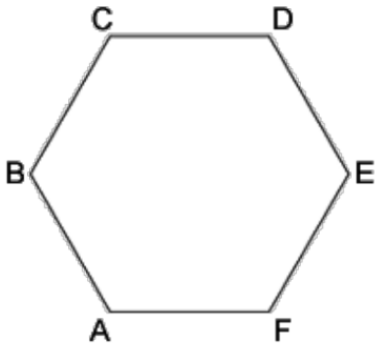


a. 6
b. 7
c. 8
d. 9

CHAPTER 8 - PERIMETER

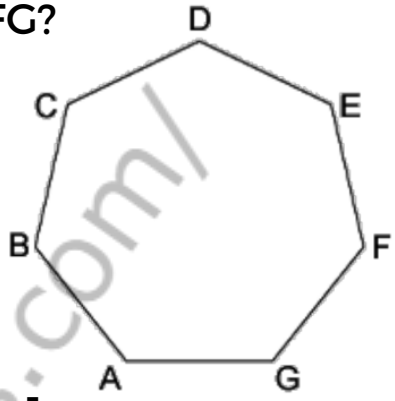
Perimeter - Finding Side Lengths

5) The perimeter of regular hexagon ABCDEF is 18. What is the length of DE?



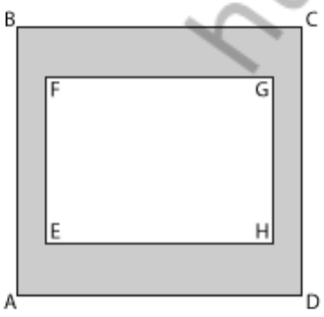
a. 3
b. 6
c. 9
d. 12

6) The perimeter of regular heptagon ABCDEFG is 14. What is the length of side FG?



a. 1
b. 2
c. 6
d. 7

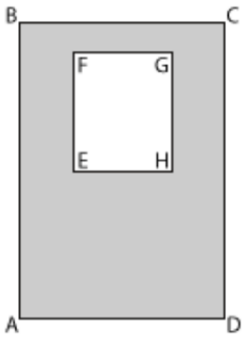
7) Square ABCD has a perimeter of 20. Which of the following could be the length of side FG of rectangle EFGH?



a. 4
b. 5
c. 15
d. 20

8) Given the following side lengths, how much larger is the perimeter of rectangle ABCD then the perimeter of rectangle EFGH?

AB = 7
BC = 5
EF = 3
FG =2

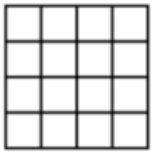


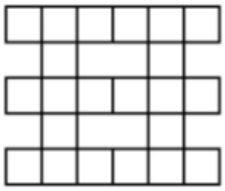
a. 10
b. 14
c. 17
d. 24

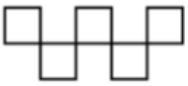
CHAPTER 8 - PERIMETER

Perimeter - Finding Side Lengths

9) Each unit square has a side length of 1. Which figure has a perimter of 18?

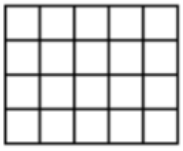
a. 

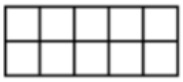
b. 

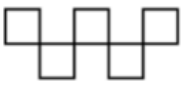
c. 

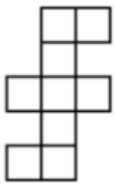
d. 

10) Each unit square of the figure has a side length of 1. Which figure has the same perimeter as the figure shown?

a. 

b. 

c. 

d. 

CHAPTER 9 - TERM 3: REVISION

CHAPTER 9 - TERM 3: REVISION

Reading fractions

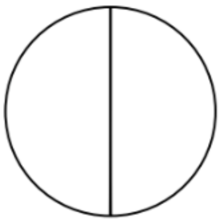
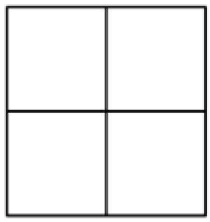
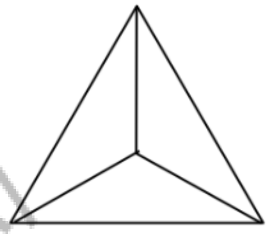
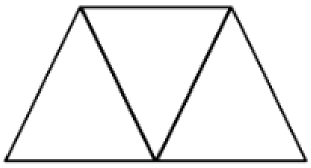
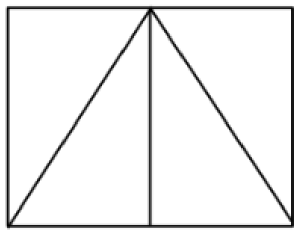
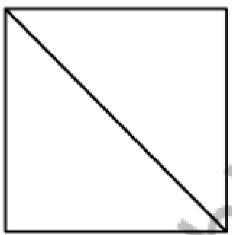
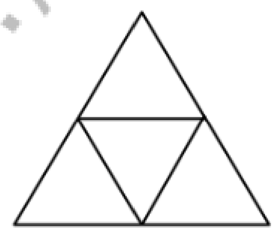
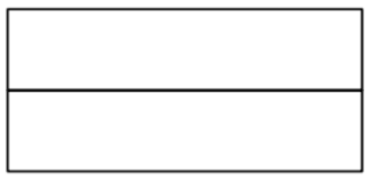
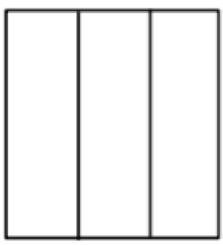
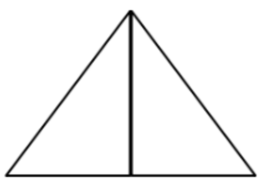
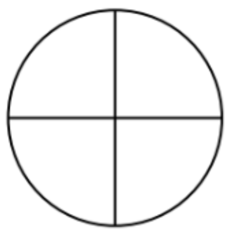
Match the fractions to their word forms.

One sixth	$\frac{2}{4}$
Two quarters	$\frac{2}{9}$
Three eighths	$\frac{3}{8}$
Two ninths	$\frac{1}{3}$
Three fifths	$\frac{1}{6}$
Five sevenths	$\frac{5}{7}$
One third	$\frac{3}{5}$

CHAPTER 9 - TERM 3: REVISION

Identify halves, thirds and quarters

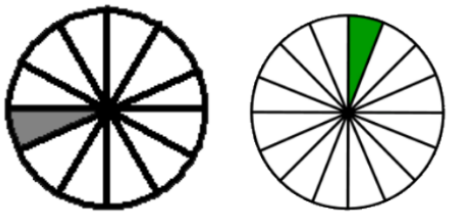
Circle the correct answer for each shape.

		
Halves / Thirds / Quarters	Halves / Thirds / Quarters	Halves / Thirds / Quarters
		
Halves / Thirds / Quarters	Halves / Thirds / Quarters	Halves / Thirds / Quarters
		
Halves / Thirds / Quarters	Halves / Thirds / Quarters	Halves / Thirds / Quarters
		
Halves / Thirds / Quarters	Halves / Thirds / Quarters	Halves / Thirds / Quarters

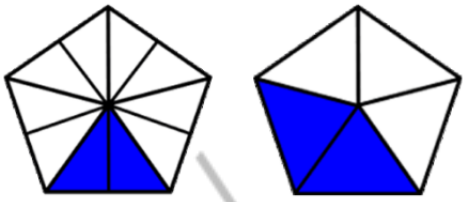
CHAPTER 9 - TERM 3: REVISION

Identify fractions

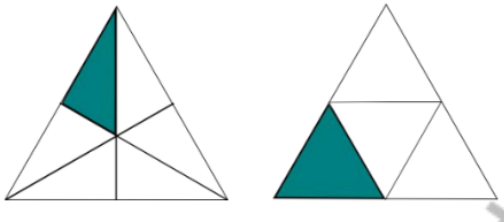
Circle the shape that shows $\frac{1}{12}$



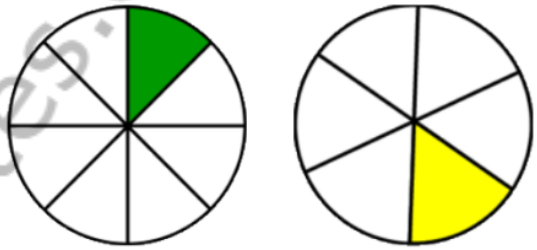
Circle the shape that shows $\frac{2}{5}$



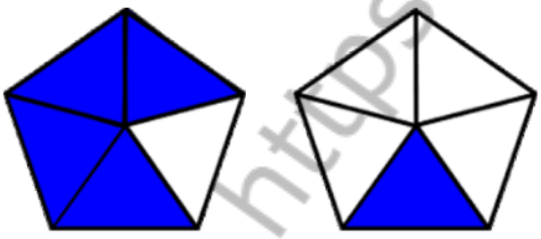
Circle the shape that shows $\frac{1}{6}$



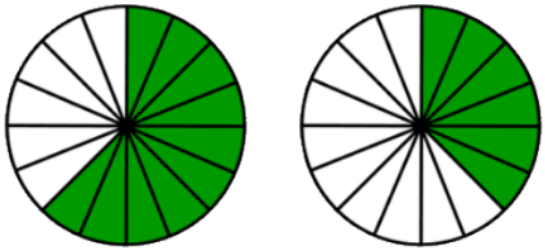
Circle the shape that shows $\frac{1}{8}$



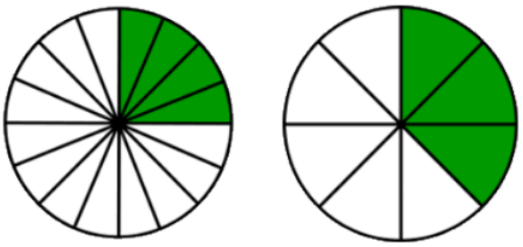
Circle the shape that shows $\frac{1}{5}$



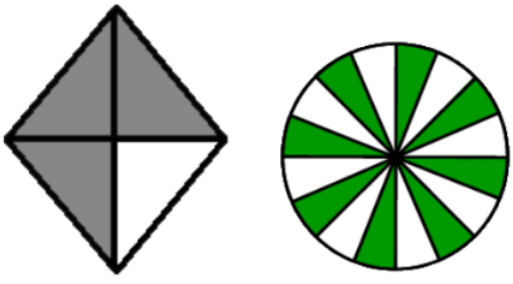
Circle the shape that shows $\frac{6}{16}$



Circle the shape that shows $\frac{1}{4}$



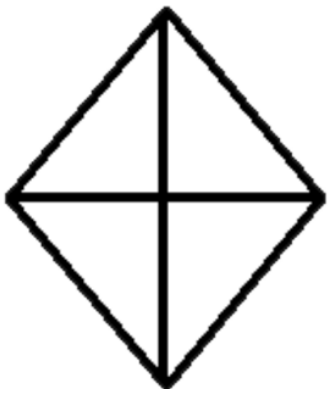
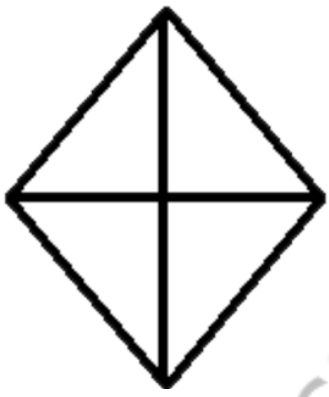
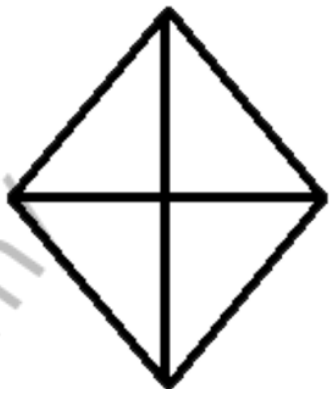
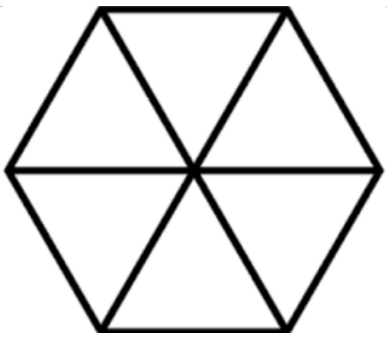
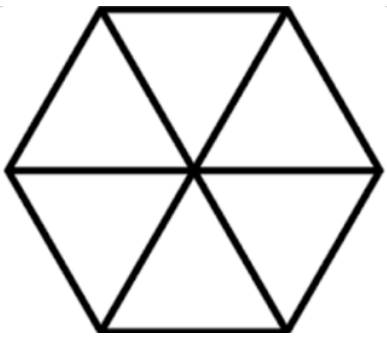
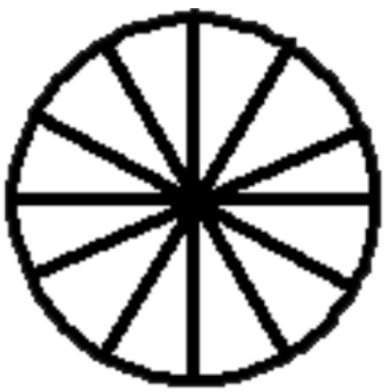
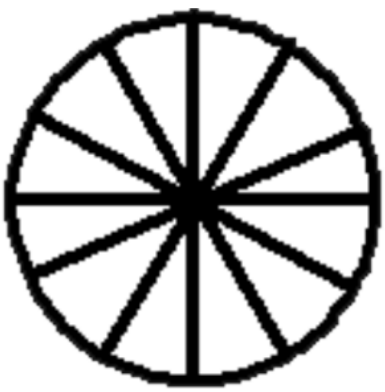
Circle the shape that shows $\frac{1}{2}$



CHAPTER 9 - TERM 3: REVISION

Identify fractions

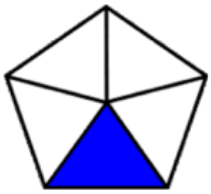
Color the shapes according to the fractions below each shape.

		
$\frac{1}{4}$	$\frac{3}{4}$	$\frac{1}{2}$
		
$\frac{2}{6}$	$\frac{5}{6}$	$\frac{1}{3}$
		
$\frac{5}{12}$	$\frac{7}{12}$	$\frac{5}{6}$

CHAPTER 9 - TERM 3: REVISION

Identify numerators and denominators

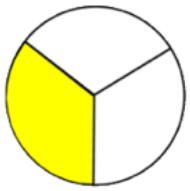
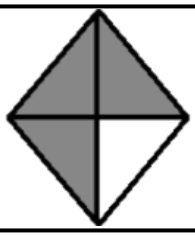
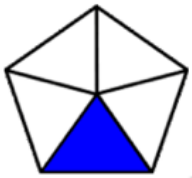
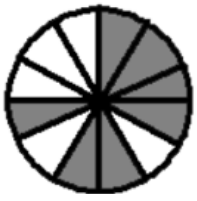
Fill in the table.

Fraction		Numerator	Denominator
$\frac{1}{5}$			
$\frac{1}{8}$			
$\frac{1}{10}$			
$\frac{2}{6}$			
$\frac{2}{4}$			
$\frac{7}{8}$			
$\frac{13}{16}$			

CHAPTER 9 - TERM 3: REVISION

Writing fractions from numerators and denominators

Write the fractions in the first column.

Fraction		Numerator	Denominator
		1	3
		3	4
		1	5
		5	6
		4	8
		7	12
		9	16

CHAPTER 9 - TERM 3: REVISION

Adding fractions (like denominators)

Find the sum.

1) $\frac{6}{8}+\frac{4}{8}=$

2) $\frac{1}{7}+\frac{1}{7}=$

3) $\frac{3}{5}+\frac{1}{5}=$

4) $\frac{2}{3}+\frac{1}{3}=$

5) $\frac{3}{5}+\frac{5}{12}=$

6) $\frac{1}{7}+\frac{6}{7}=$

7) $\frac{2}{4}+\frac{3}{4}=$

8) $\frac{2}{11}+\frac{10}{11}=$

9) $\frac{1}{3}+\frac{1}{3}=$

10) $\frac{1}{2}+\frac{1}{2}=$

11) $\frac{3}{6}+\frac{2}{6}=$

12) $\frac{2}{9}+\frac{3}{9}=$

13) $\frac{8}{10}+\frac{7}{10}=$

14) $\frac{3}{8}+\frac{7}{8}=$

15) $\frac{4}{5}+\frac{3}{5}=$

16) $\frac{3}{11}+\frac{10}{11}=$

17) $\frac{1}{5}+\frac{2}{5}=$

18) $\frac{4}{6}+\frac{5}{6}=$

19) $\frac{1}{4}+\frac{1}{4}=$

20) $\frac{7}{9}+\frac{3}{9}=$

21) $\frac{3}{12}+\frac{4}{12}=$

CHAPTER 9 - TERM 3: REVISION

Adding fractions (like denominators)

Find the sum.

1) $\frac{1}{7}+\frac{2}{7}=$

2) $\frac{4}{11}+\frac{9}{11}=$

3) $\frac{5}{6}+\frac{1}{6}=$

4) $\frac{1}{4}+\frac{3}{4}=$

5) $\frac{3}{5}+\frac{3}{5}=$

6) $\frac{7}{9}+\frac{2}{9}=$

7) $\frac{1}{2}+\frac{1}{2}=$

8) $\frac{2}{3}+\frac{2}{3}=$

9) $\frac{3}{8}+\frac{6}{8}=$

10) $\frac{9}{12}+\frac{1}{12}=$

11) $\frac{8}{11}+\frac{1}{11}=$

12) $\frac{1}{9}+\frac{2}{9}=$

13) $\frac{2}{6}+\frac{5}{6}=$

14) $\frac{5}{10}+\frac{8}{10}=$

15) $\frac{2}{7}+\frac{3}{7}=$

16) $\frac{4}{6}+\frac{3}{6}=$

17) $\frac{5}{8}+\frac{1}{8}=$

18) $\frac{10}{11}+\frac{1}{11}=$

19) $\frac{2}{12}+\frac{11}{12}=$

20) $\frac{2}{7}+\frac{1}{7}=$

21) $\frac{9}{10}+\frac{9}{10}=$

CHAPTER 9 - TERM 3: REVISION

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{2}{4} - \frac{1}{4} =$

2) $\frac{7}{9} - \frac{6}{9} =$

3) $\frac{5}{7} - \frac{4}{7} =$

4) $\frac{2}{3} - \frac{1}{3} =$

5) $\frac{11}{12} - \frac{10}{12} =$

6) $\frac{6}{8} - \frac{3}{8} =$

7) $\frac{10}{11} - \frac{4}{11} =$

8) $\frac{4}{5} - \frac{3}{5} =$

9) $\frac{9}{11} - \frac{3}{11} =$

10) $\frac{5}{6} - \frac{1}{6} =$

11) $\frac{5}{9} - \frac{4}{9} =$

12) $\frac{3}{4} - \frac{2}{4} =$

13) $\frac{7}{10} - \frac{5}{10} =$

14) $\frac{8}{12} - \frac{2}{12} =$

15) $\frac{6}{7} - \frac{3}{7} =$

16) $\frac{7}{8} - \frac{5}{8} =$

17) $\frac{5}{11} - \frac{4}{11} =$

18) $\frac{4}{10} - \frac{3}{10} =$

19) $\frac{10}{12} - \frac{8}{12} =$

20) $\frac{4}{5} - \frac{1}{5} =$

21) $\frac{7}{8} - \frac{4}{8} =$

CHAPTER 9 - TERM 3: REVISION

Subtracting fractions (like denominators)

Find the difference.

1) $\frac{3}{4} - \frac{2}{4} =$

2) $\frac{6}{7} - \frac{5}{7} =$

3) $\frac{2}{3} - \frac{1}{3} =$

4) $\frac{6}{7} - \frac{4}{7} =$

5) $\frac{10}{11} - \frac{3}{11} =$

6) $\frac{5}{6} - \frac{4}{6} =$

7) $\frac{9}{10} - \frac{8}{10} =$

8) $\frac{2}{4} - \frac{1}{4} =$

9) $\frac{4}{5} - \frac{1}{5} =$

10) $\frac{8}{9} - \frac{1}{9} =$

11) $\frac{7}{8} - \frac{2}{8} =$

12) $\frac{11}{12} - \frac{7}{12} =$

13) $\frac{3}{6} - \frac{1}{6} =$

14) $\frac{6}{12} - \frac{4}{12} =$

15) $\frac{9}{10} - \frac{6}{10} =$

16) $\frac{4}{5} - \frac{3}{5} =$

17) $\frac{6}{8} - \frac{5}{8} =$

18) $\frac{3}{4} - \frac{1}{4} =$

19) $\frac{6}{9} - \frac{3}{9} =$

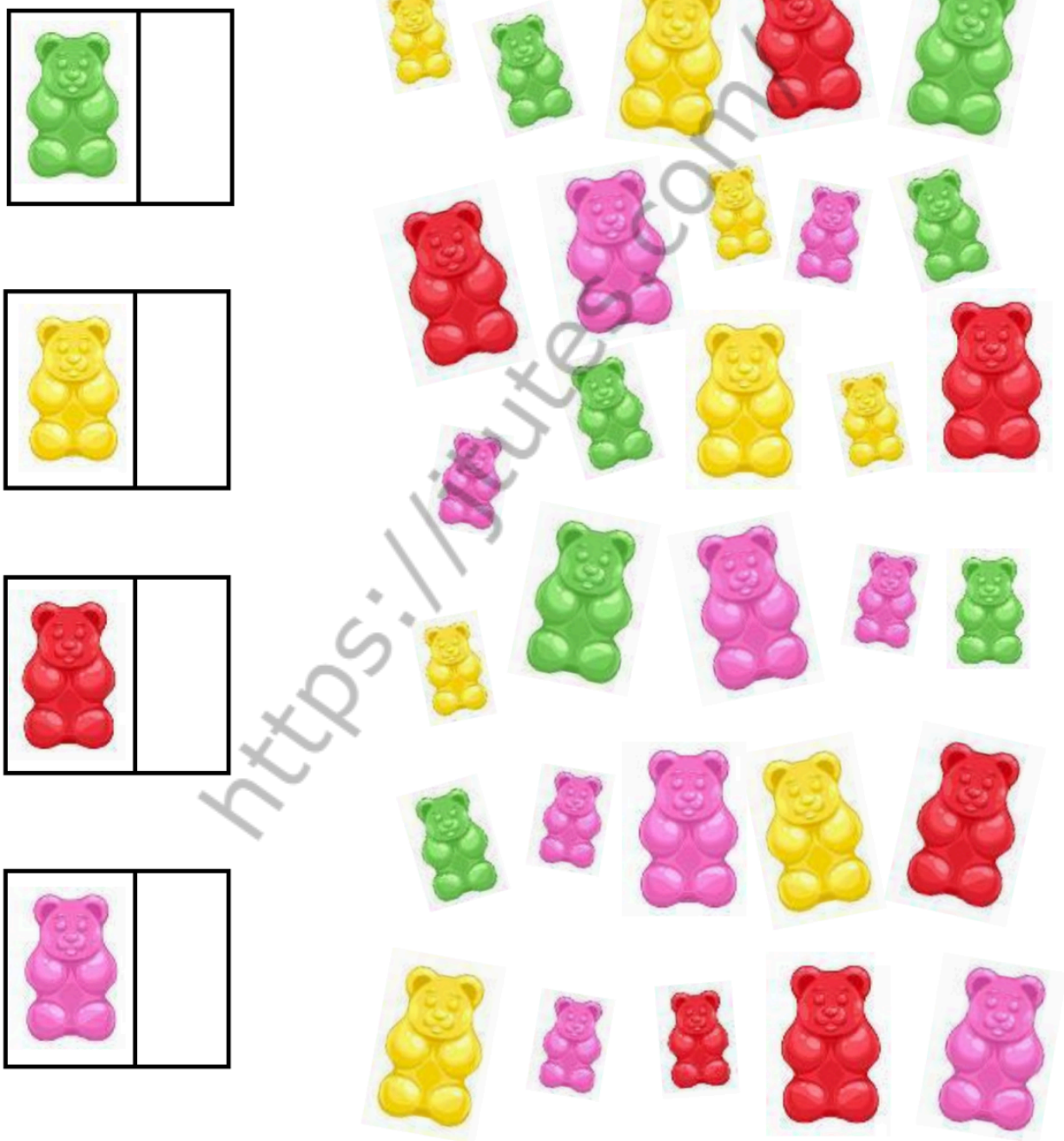
20) $\frac{4}{7} - \frac{1}{7} =$

21) $\frac{8}{11} - \frac{4}{11} =$

CHAPTER 9 - TERM 3: REVISION

Sort and count gummy bears

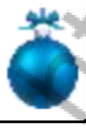
Draw a line from each gummy bear to the correct box.
How many of each color are there?



CHAPTER 9 - TERM 3: REVISION

Christmas balls tally sheet

Draw tally marks for each Christmas ball color.
Count the tally marks and write the number.

Color	Tally marks	Number
Blue 		
Violet 		
Red 		
Yellow 		

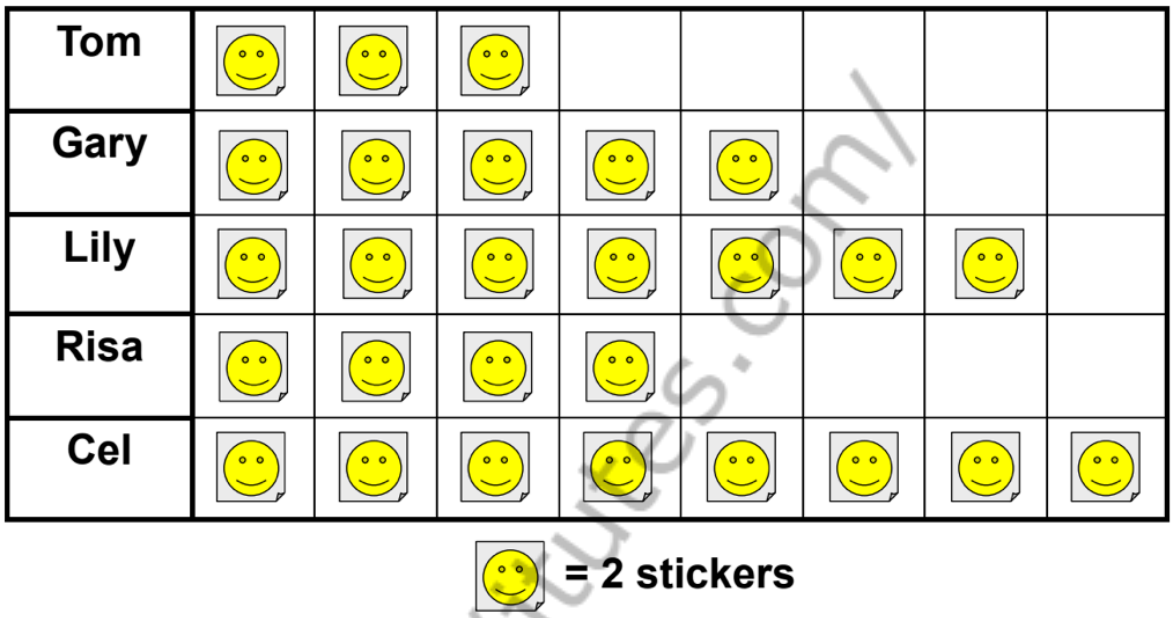
Total ☐

CHAPTER 9 - TERM 3: REVISION

Sticker collection pictograph

Tom, Gary, Lily, Risa and Cel recorded their sticker collection in a pictograph.

Number of stickers



1) Who collected 10 stickers? _____

2) How many stickers did Risa collect? _____

3) How many stickers did Lily collect? _____

4) Who collected the most stickers? _____

5) How many more stickers did Lily collect than Tom? _____

6) How many stickers did Gary and Lisa collect? _____

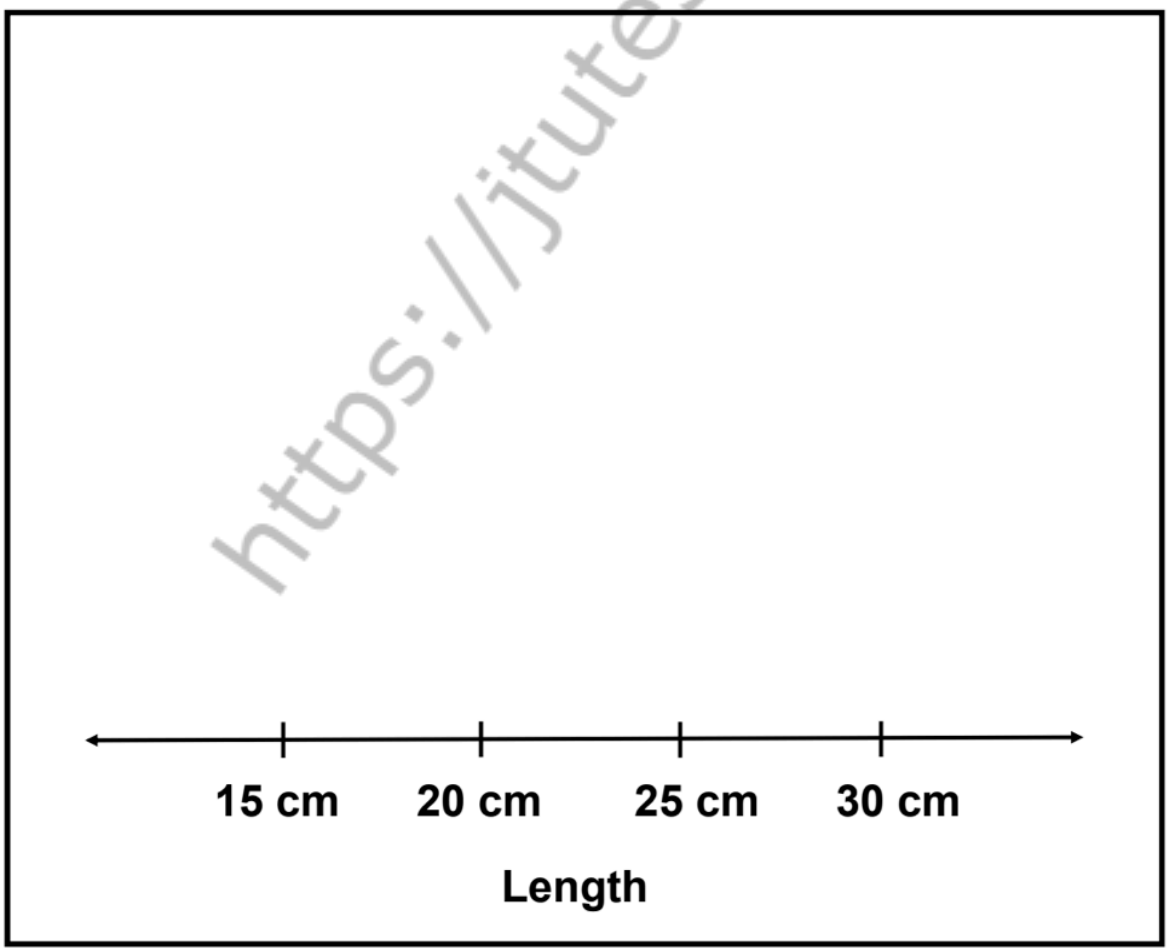
CHAPTER 9 - TERM 3: REVISION

Ribbon length line plot

Dan cut 12 pieces of ribbon and recorded each length. Create a line plot using the data.

Ribbon length

15 cm	20 cm	25 cm	15 cm	20 cm	20 cm
25 cm	20 cm	15 cm	30 cm	20 cm	30 cm

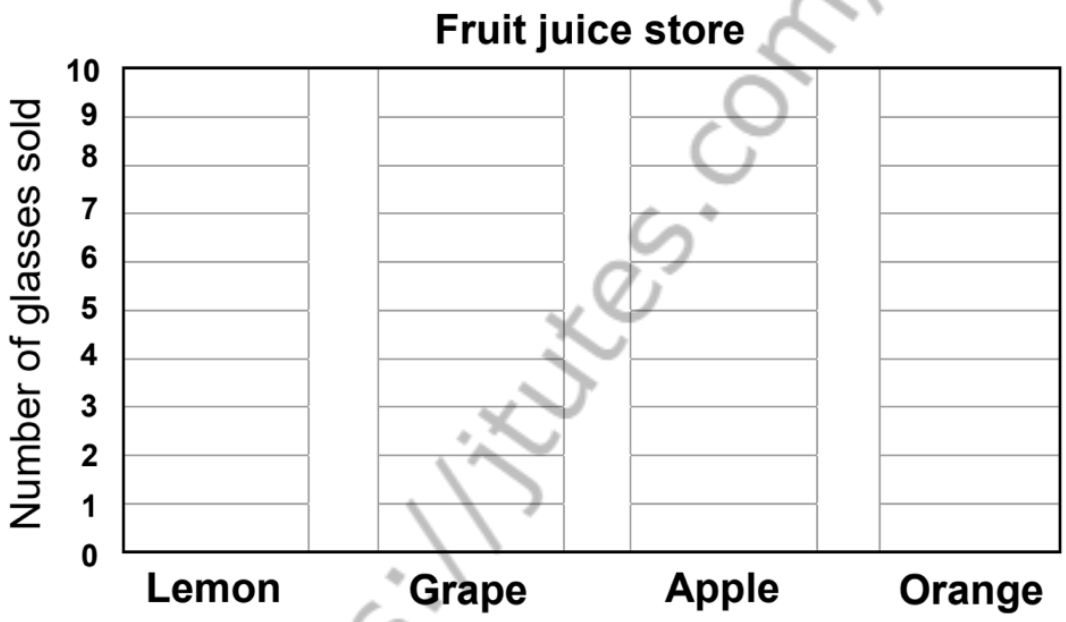


CHAPTER 9 - TERM 3: REVISION

Juice store bar graph

A fruit juice store recorded the number of glasses sold. Create a bar graph and answer the questions.

Fruit juice	Lemon	Grape	Apple	Orange
Number of glasses sold	7	10	9	8



1) What juice sold the most? _____

2) What juice sold the least? _____

3) How many glasses of apple juice were sold? _____

4) How many more glasses of grapes juice were sold than lemon juice? _____

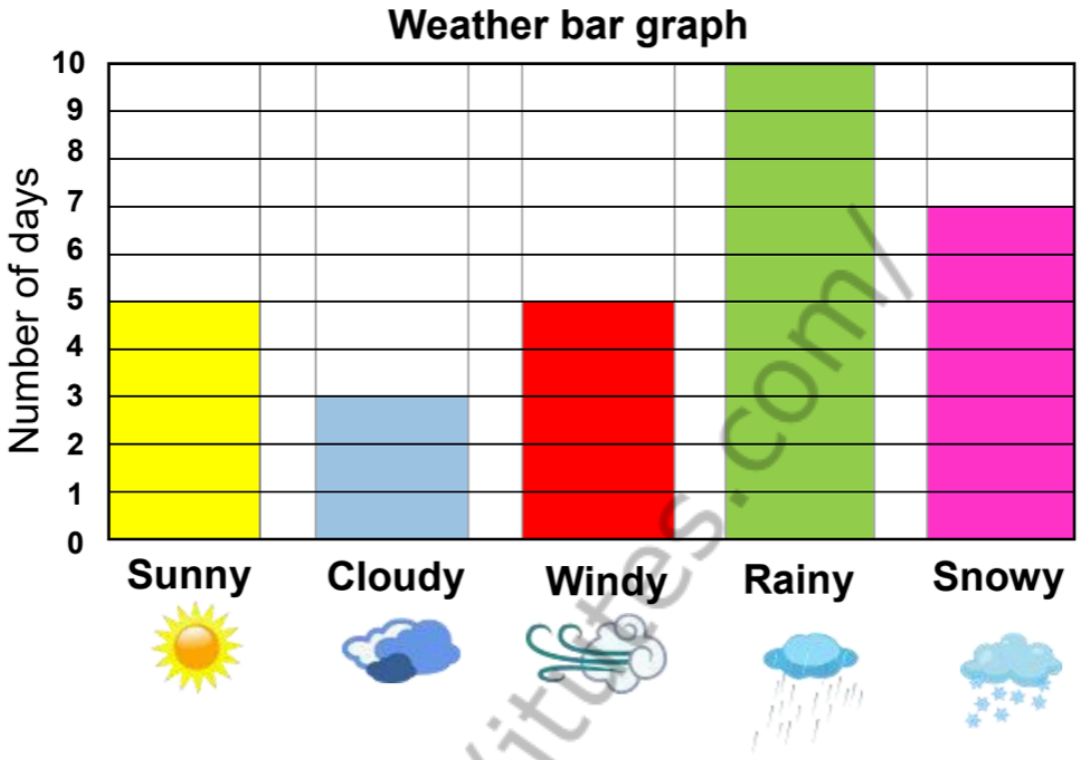
5) How many glasses of orange and apple juice together were sold? _____

6) How many glasses were sold in all? _____

CHAPTER 9 - TERM 3: REVISION

Weather bar graph

Look at the bar graph and answer the questions.



1) How many days were sunny?

a. 3 b. 5 c. 7

2) How many days were rainy?

a. 8 b. 9 c. 10

3) How many more snowy days were there than cloudy days?

a. 4 b. 5 c. 7

4) How many less windy days were there than rainy days?

a. 5 b. 8 c. 10

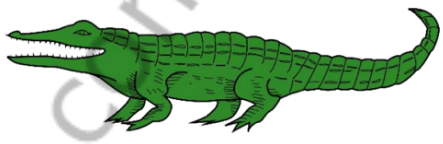
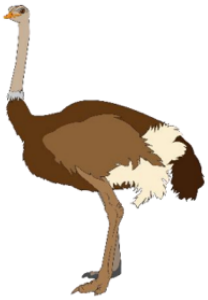
5) How many days were sunny and snowy?

a. 8 b. 12 c. 15

CHAPTER 9 - TERM 3: REVISION

Units of length (centimeters and meters)

Fill in the proper unit (cm or m) for each of the measurements below.
Hint: 1 meter = 100 centimeters

Length of a pair of sunglasses: 20 _____ 	Length of an alligator: 2 _____ 
Length of a city train: 65 _____ 	Length of a car: 4 _____ 
Height of an ostrich: 1 _____ 	Length of a toothbrush: 18 _____ 

CHAPTER 9 - TERM 3: REVISION

Measure lengths in non-standard units and centimeters

Use an AA battery 

and a centimeter ruler to measure the height of each picture below.

Height (round to the nearest battery or centimeter)		
Toothpaste	Mouthwash	Toothbrush
_____ batteries	_____ batteries	_____ batteries
_____ centimeters	_____ centimeters	_____ centimeters

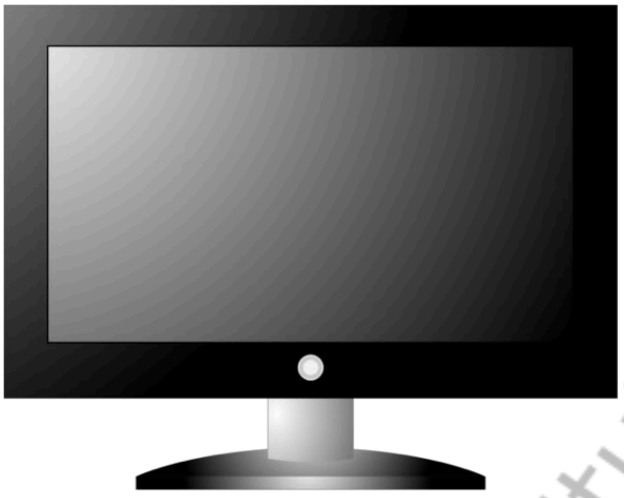
CHAPTER 9 - TERM 3: REVISION

Estimate and measure length in centimeters

Estimate the width of each picture in centimeters.

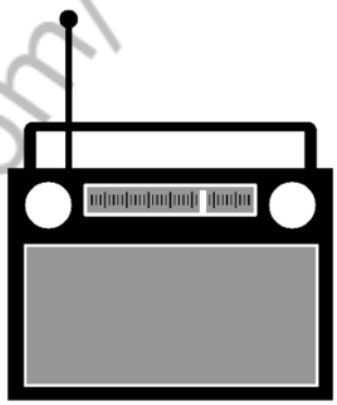
TV

Width: _____ centimeters



Radio

Width: _____ centimeters



Measure the width of the pictures using a centimeter ruler.

TV

Width: _____ centimeters

Radio

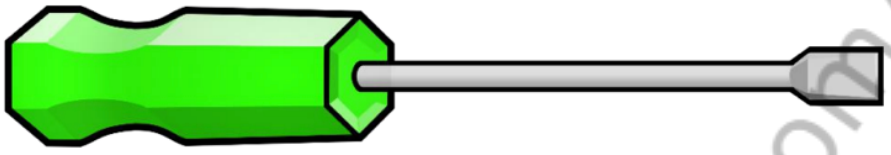
Width: _____ centimeters

CHAPTER 9 - TERM 3: REVISION

Differences in length (centimeters)

Measure the height of the pictures using a centimeter ruler.

Length of screwdriver:
_____ centimeters



Length of hammer:
_____ centimeters

Which one is longer? _____

By how much? _____

CHAPTER 9 - TERM 3: REVISION

Metric units of length

Remember: 1 cm = 10 mm
1 m = 100 cm
1 km = 1000 m

Circle the right words for each of the followings.

1) 1 m is	longer than / shorter than / the same as	1000 mm.
2) 2 cm is	longer than / shorter than / the same as	200 mm.
3) 1000 m is	longer than / shorter than / the same as	1 km.
4) 6 cm is	longer than / shorter than / the same as	500 mm.
5) 5 cm is	longer than / shorter than / the same as	1 m.
6) 60 m is	longer than / shorter than / the same as	60 cm.
7) 2 km is	longer than / shorter than / the same as	200 m.
8) 2 m is	longer than / shorter than / the same as	20 cm.
9) 2000 m is	longer than / shorter than / the same as	20 km.
10) 5 m is	longer than / shorter than / the same as	500 mm.
11) 6 km is	longer than / shorter than / the same as	600 m.
12) 4 cm is	longer than / shorter than / the same as	400 mm.
13) 100 m is	longer than / shorter than / the same as	1 km.
14) 50 m is	longer than / shorter than / the same as	1 km.
15) 1500 m is	longer than / shorter than / the same as	1.5 km.

CHAPTER 9 - TERM 3: REVISION

Metric units of length: kilometers, meters, centimeters and millimeters

Note: 1 kilometer (km) = 1,000 meter (m) 1m = 100 centimeters (cm) = 1,000 millimeters (mm)

Convert to the units shown:

1) 26 m = cm
2) 97 m = cm
3) 69 m = mm
4) 97 cm = mm
5) 35 m = cm
6) 86 m = cm
7) 78 cm = mm
8) 44 m = mm
9) 30 m = cm
10) 95 m = mm

Convert to the units shown:

11) 9,000 cm = m
12) 6,000 mm = cm
13) 3,000 mm = cm
14) 7,000 mm = m
15) 5,000 cm = cm
16) 6,000 cm = m
17) 7,000 mm = cm
18) 5,000 cm = m
19) 8,000 cm = m
20) 4,000 cm = m

CHAPTER 9 - TERM 3: REVISION

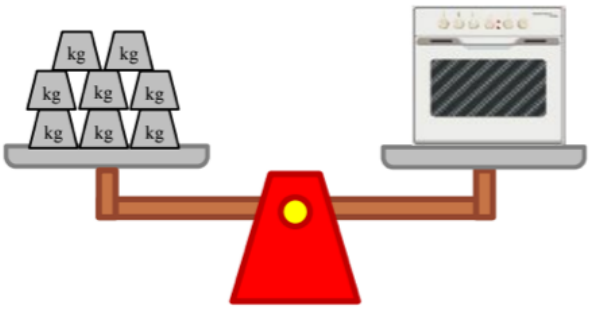
Metric units of weight: grams (g) and kilograms (kg)

Fill in the proper unit (grams or kilograms) for the weight of each object.
Hint: 1 kilogram = 1,000 grams

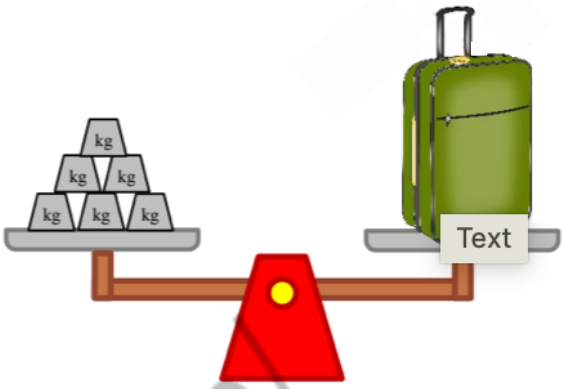
A full backpack: 8 _____ 	A mug: 220 _____ 
A baseball: 140 _____ 	A television: 10 _____ 
A piece of steak: 340 _____ 	A toy car: 350 _____ 

CHAPTER 9 - TERM 3: REVISION

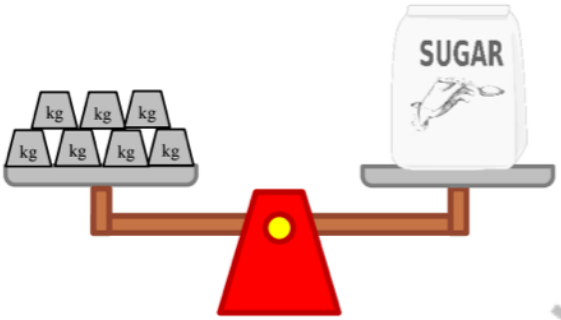
Measure weights with metric units (kilograms)



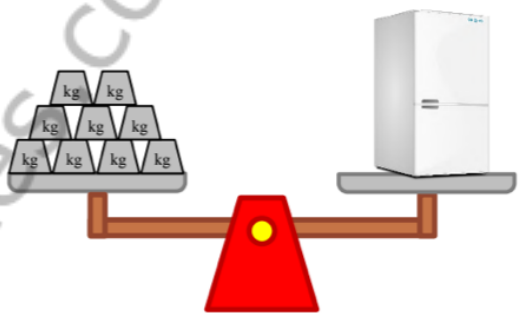
The oven weighs _____ kg.



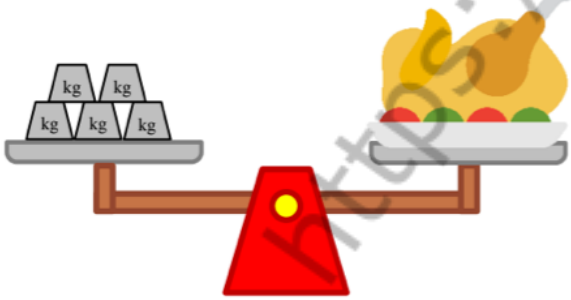
The suitcase weighs _____ kg.



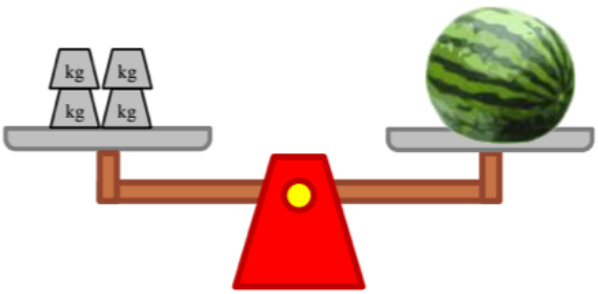
The bag of sugar weighs _____ kg.



The fridge weighs _____ kg.



The roasted turkey weighs _____ kg.



The watermelon weighs _____ kg.

Which object is the heaviest? _____

Which object is the lightest? _____

CHAPTER 9 - TERM 3: REVISION

Metric units of mass: kilograms and grams

Note: 1 kilogram (kg) = 1,000 grams (gm)

Convert kilograms to grams

1) 7 kg = g
2) 5 kg = g
3) 33 kg = g
4) 37 kg = g
5) 3 kg = g
6) 4 kg = g
7) 60 kg = g
8) 9 kg = g
9) 6 kg = g
10) 46 kg = g

Convert grams to kilograms

11) 400,000 g = kg
12) 300,000 g = kg
13) 30,000 g = kg
14) 90,000 g = kg
15) 70,000 g = kg
16) 60,000 g = kg
17) 200,000 g = kg
18) 10,000 g = kg
19) 100,000 g = kg
20) 80,000 g = kg

CHAPTER 9 - TERM 3: REVISION

Capacity: More or less than 1 liter?

Does it hold more or less than 1 liter? Circle the correct answer. Hint: 1 liter = 1000 mL

A barrel 	A gas can 	A washroom sink 
Less than / More than	Less than / More than	Less than / More than
A frying pan 	A soda can 	A fridge 
Less than / More than	Less than / More than	Less than / More than
A wine glass 	A blue box 	A ladel 
Less than / More than	Less than / More than	Less than / More than

CHAPTER 9 - TERM 3: REVISION

Metric units of capacity: liters and milliliters

Note: 1 liter (L) = 1,000 milliliter (mL)

Convert litres to milliliters

1) 13 L = mL
2) 4 L = mL
3) 56 L = mL
4) 5 L = mL
5) 8 L = mL
6) 74 L = mL
7) 83 L = mL
8) 36 L = mL
9) 18 L = mL
10) 3 L = mL

Convert milliliters to liters

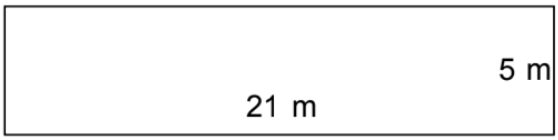
11) 20,000 mL = L
12) 26,000 mL = L
13) 40,000 mL = L
14) 5,000 mL = L
15) 30,000 mL = L
16) 2,000 mL = L
17) 4,000 mL = L
18) 3,000 mL = L
19) 10,000 mL = L
20) 9,000 mL = L

CHAPTER 9 - TERM 3: REVISION

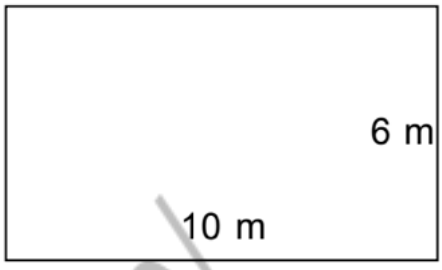
Rectangles - area and perimeter (metric)

Find the perimeter of each rectangle.

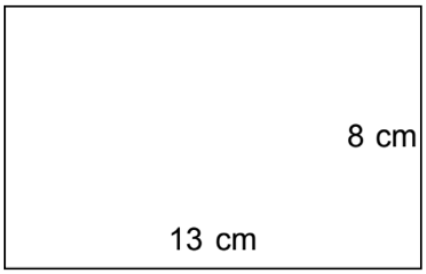
1)



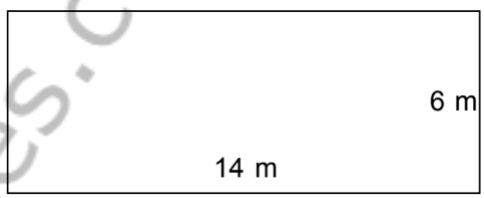
2)



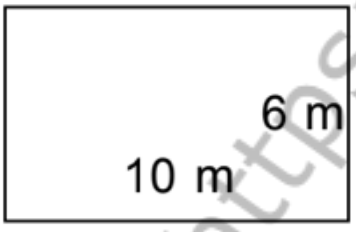
3)



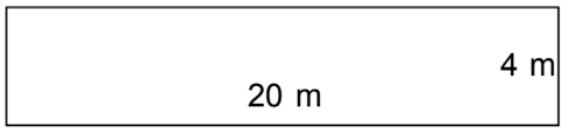
4)



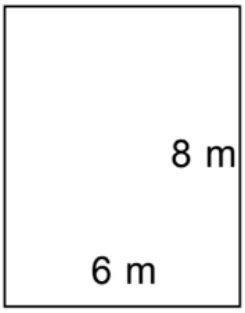
5)



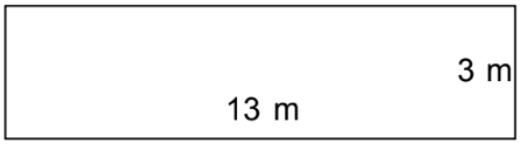
6)



7)



8)

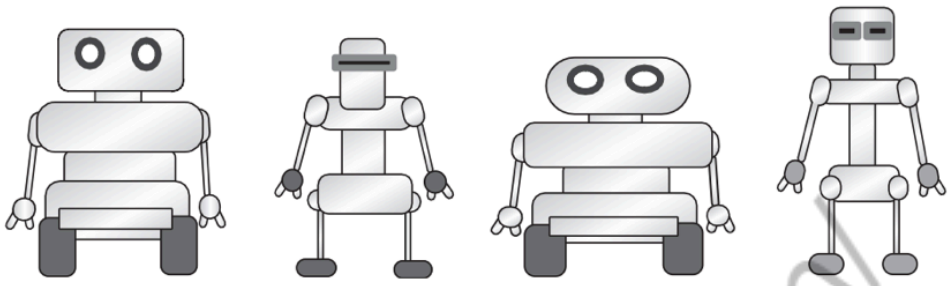


WEEK 10 - NAPLAN -2014

NAPLAN - 2014

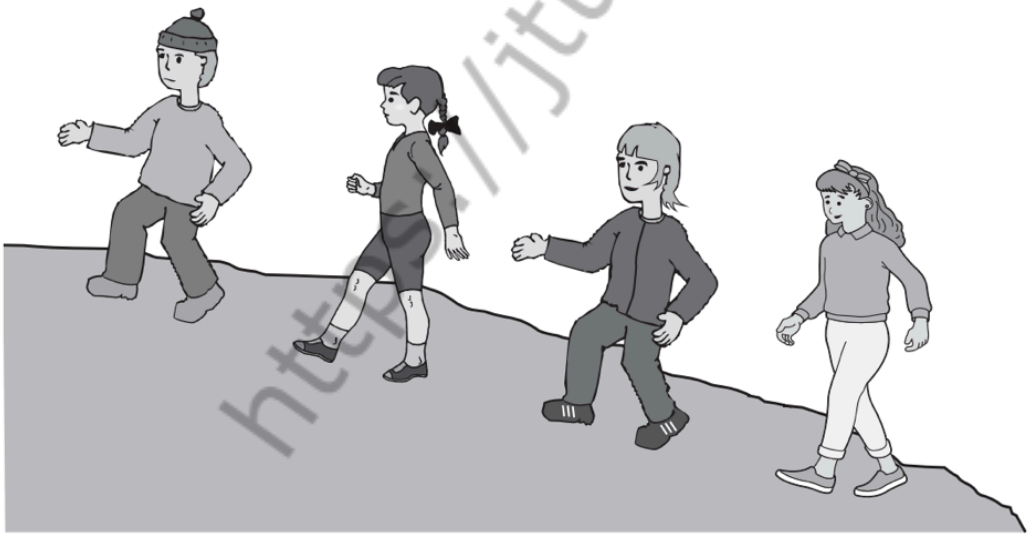
Year 3 - Numeracy

1) Which robot is the tallest?



☐ ☐ ☐ ☐

2) Four children are walking up a hill.
Who is second from the top?

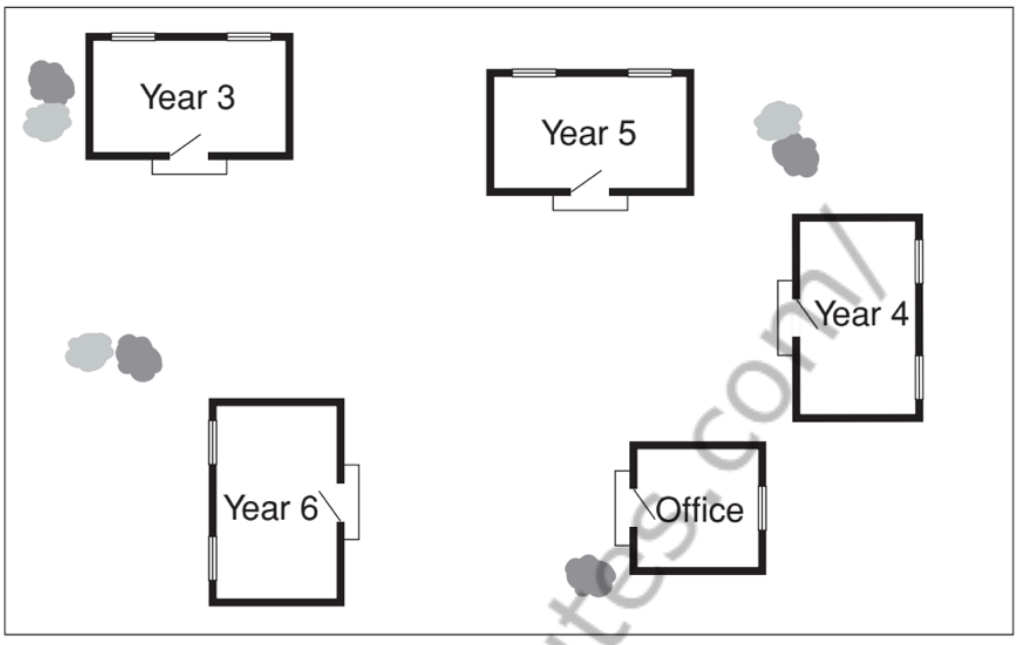


☐ ☐ ☐ ☐

NAPLAN - 2014

Year 3 - Numeracy

3) This is a map of part of a school.



Which of these classrooms is furthest away from the office?

Year 3 ☐ Year 4 ☐ Year 5 ☐ Year 6 ☐

4) Tom is counting down by ones.

53, 52, 51, 50, ?

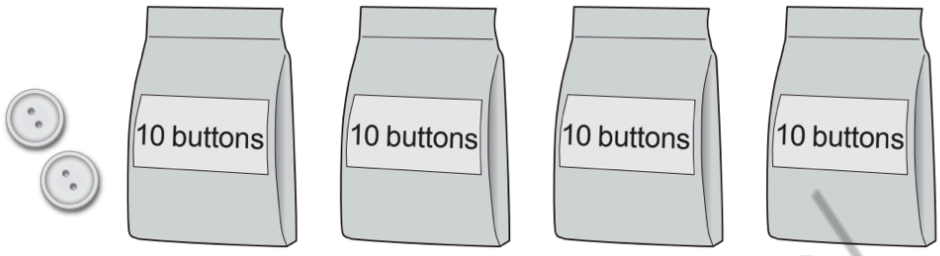
Which number comes next?

40 ☐ 49 ☐ 51 ☐ 59 ☐

NAPLAN - 2014

Year 3 - Numeracy

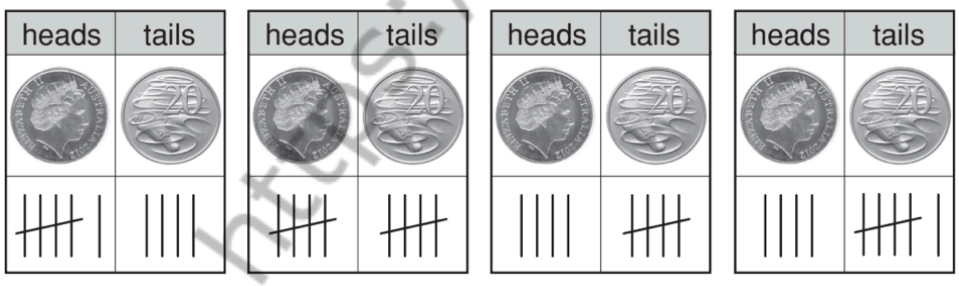
5) Mary has some packets of buttons and 2 extra buttons.



How many buttons does Mary have in total?

6 ☐ 24 ☐ 42 ☐ 402 ☐

6) Mitch tossed a coin 10 times.
He got 4 heads and 6 tails.
Which of these correctly shows Mitch's tally?



☐ ☐ ☐ ☐

7) Leah travelled 14 kilometers by bus and then 67 kilometers by train. How many kilometers did she travel altogether?

53 ☐ 71 ☐ 73 ☐ 81 ☐

NAPLAN - 2014

Year 3 - Numeracy

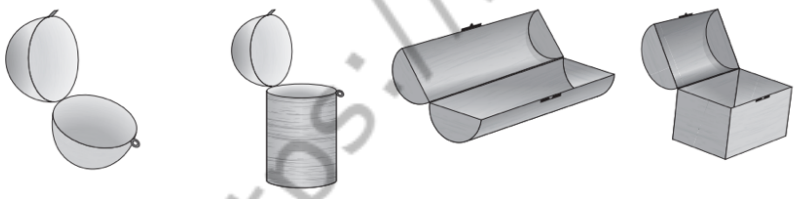
8) Which of these bikes is cheapest?

☐ ☐ ☐ ☐

9) Which clock shows half past 10?

☐ ☐ ☐ ☐ ☐

10) Which of these will look most like a cylinder when it is closed?



☐ ☐ ☐ ☐

11) Ben has started to make a model of cube using toothpicks and clay.

How many **more** toothpicks does ben need to finish the model?

2 ☐ 3 ☐ 4 ☐ 6 ☐ 9 ☐

NAPLAN - 2014

Year 3 - Numeracy

12) 11 + ☐ = 34

13) Sue needs to buy 16 hats for a party.
The hats are sold in packets of 5.
How many packets does she need to buy?

3	4	21	80
☐	☐	☐	☐

14) Emma is using paperclips to measure this piece of card. What is the total length of all four sides?

- ☐ 8 paperclips
- ☐ 13 paperclips
- ☐ 15 paperclips
- ☐ 16 paperclips
- ☐ 17 paperclips

15) Lily cut some whole apples into quarters.
She put all the quarters on this plate.

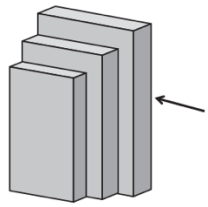
How many whole apples did Lily cut?

☐

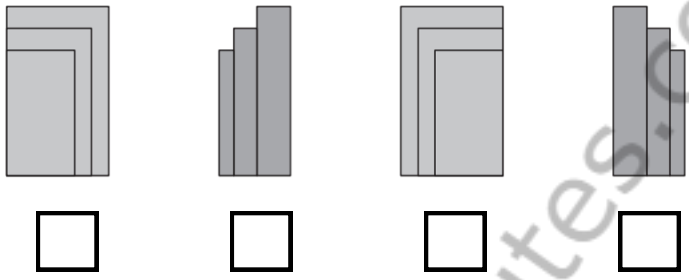
NAPLAN - 2014

Year 3 - Numeracy

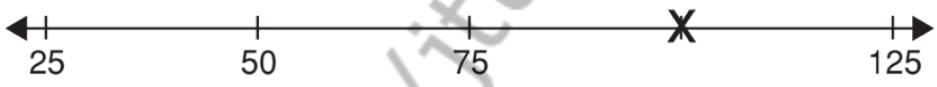
16) Claire is looking at some boxes in the direction shown by the arrow.



What does she see?



17)



What number is market with **X** on this number line?

90 ☐ 95 ☐ 100 ☐ 105 ☐

18) The table shows the heights of 5 children.

Name	Grace	Ethan	Joe	Alice	David
Height (centimetres)	137	143	127	131	133

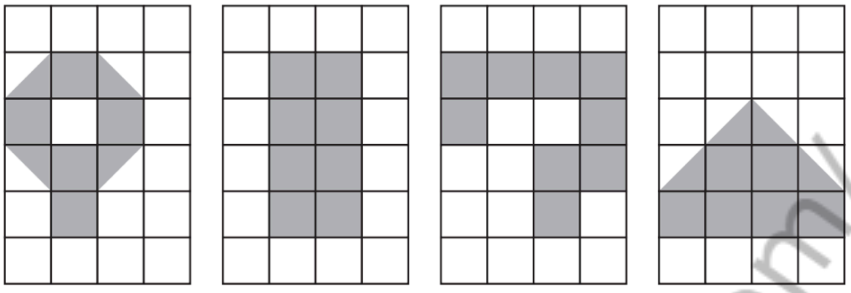
Who is 6 centimeters shorter than the tallest child?

Grace ☐ Ethan ☐ Joe ☐ Alice ☐ David ☐

NAPLAN - 2014

Year 3 - Numeracy

19) Kate shaded these 4 shapes on grid paper.
Which shape has the **least** shading?



☐ ☐ ☐ ☐

20)

November						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

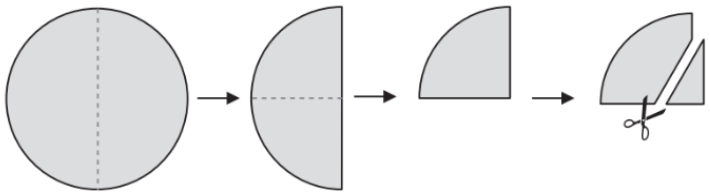
Luke's birthday is 4 November.
Ella's birthday is 6 days before Luke's birthday.
On which day of the week is Ella's birthday?

Sunday ☐ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐

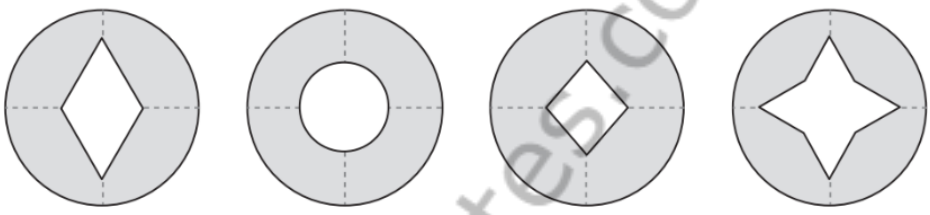
NAPLAN - 2014

Year 3 - Numeracy

21) Mike had a circular piece of paper.
He folded it in half twice and cut a piece out as shown.



How will the piece of paper look when he unfolds it?



☐ ☐ ☐ ☐

22) This table shows how 800 students came to school.

How students came to school	Number of students
Bus	250
Car	310
Cycle	110
Walk	130

Which of these is true?

☐ Most students came by bus.

☐ More students walked than cycled.

☐ More students came by bus than by car.

☐ More than half the students came by car.

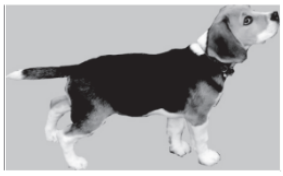
NAPLAN - 2014

Year 3 - Numeracy

23) Tim has the picture on his computer.

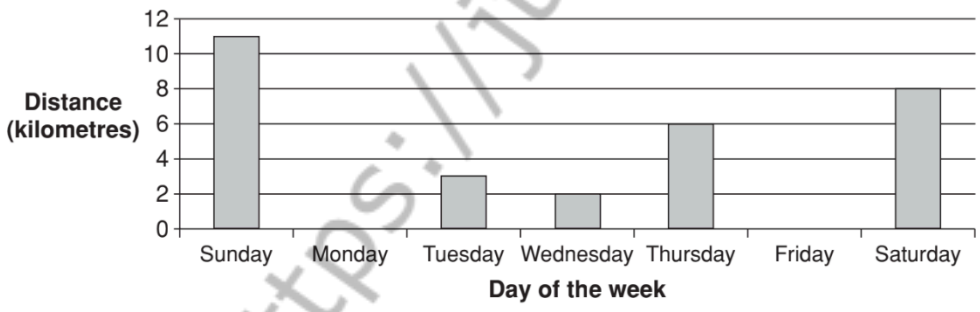
He makes the picture twice as high and half as wide.

How will the picture look after he does that?




☐ ☐ ☐ ☐

24) This graph shows how far Jill ran each day in a week.



On how many days in the week did Jill run at least 5 kilometers?

2 ☐ 3 ☐ 4 ☐ 5 ☐

25) Sam has $1.20 in 5-cent coins.

How many 5-cent coins does Sam have?

☐

NAPLAN - 2014

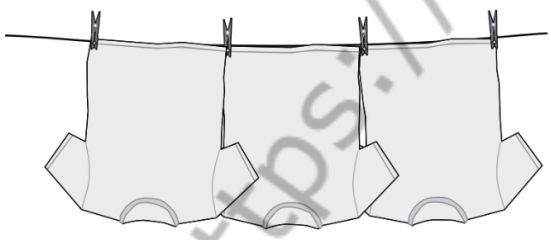
Year 3 - Numeracy

26) Jen put one shape on top of another shape to make this star.

Which two shapes could Jen have used?

☐ ☐ ☐ ☐

27) Jesse hangs 3 T-shirts on a line.
Any T-shirts next to each other share a peg.
He uses 4 pegs.



How many pegs would Jesse use to hang 6 T-shirts next to each other?

☐

28) Jake cuts a 12-centimeter length of string into two pieces. The longer piece is three times the length of the shorter piece. What is the length of the longer piece?

☐ centimeters

NAPLAN - 2014

Year 3 - Numeracy

29) A shop sells cupcakes in trays and boxes.
Each tray holds 6 cupcakes.
Each box holds 8 cupcakes.

Molly buys a total of 50 cupcakes.
She buys 4 boxes and some trays.
How many trays does Molly buy?

☐

30) This table shows the months when Ava planted different types of vegetable seeds.

Type of seed	January	February	March	April	May	June	July	August	September	October	November	December
Cabbage		✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Carrot	✔	✔	✔	✔	✔				✔	✔	✔	✔
Lettuce	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
Pea					✔	✔	✔	✔	✔			

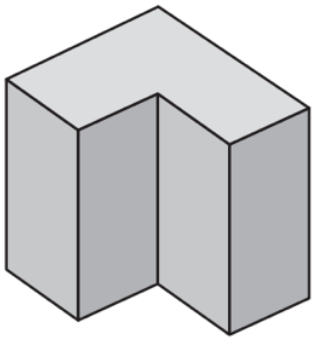
During how many months did Ava plant carrot seeds but **not** pea seeds?

3 ☐ 4 ☐ 5 ☐ 7 ☐ 9 ☐

NAPLAN - 2014

Year 3 - Numeracy

31) Oscar had a wooden cube.
He removed one-quarter of the cube to make this object.



How many edges does this object have?

12 ☐ 14 ☐ 15 ☐ 18 ☐

32) Lucy buys an apple and a sandwich for lunch.

She pays with a $5 note and gets back $2.00 change.
How much does the apple cost?

$ ☐

NAPLAN - 2014

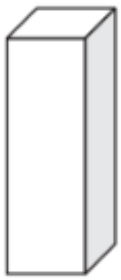
Year 3 - Numeracy

33) Oliver has these cards.

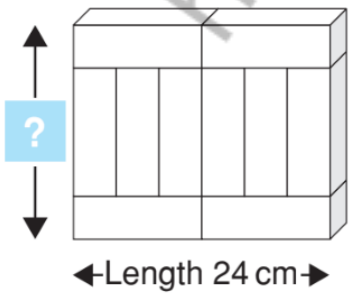
Here are two ways he can arrange all the cards so that two numbers are added to make a total.

What is the largest total Oliver can make using all the cards?

34) Meg has blocks with two square facecs.



She makes this model.



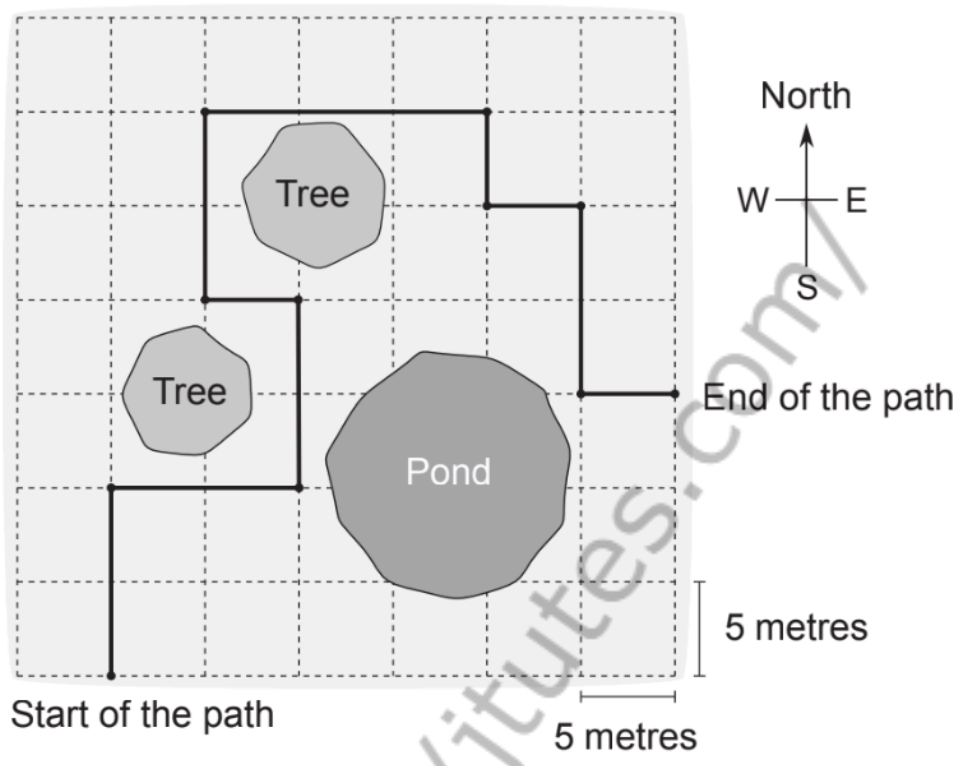
What is the height of the model in centimeters?

centimeters

NAPLAN - 2014

Year 3 - Numeracy

35) This is a map of Kayla's garden.



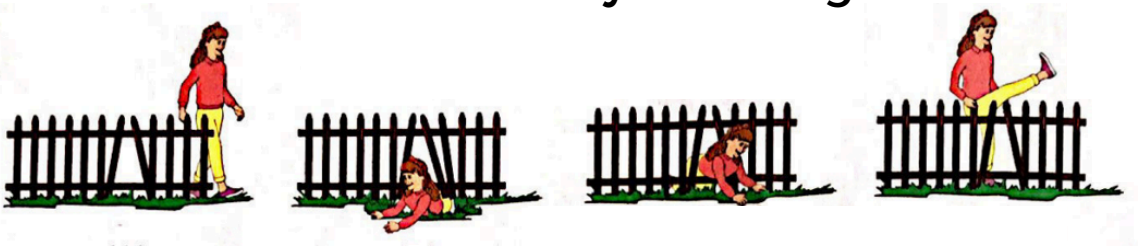
Kayla walked along the path from the start to the end. For how many meters did Kayla walk **east**?

STOP - END OF TEST

WEEK 4 - ICAS - 2016

ICAS - 2016

1) Which of these shows Lucy climbing over the fence?



(A) (B) (C) (D)

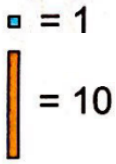
2) Fadi is counting to 100 by fives.
He is up to 75.
What number should Fadi say next?
(A) 70 (B) 76 (C) 80 (D) 85

3) Pete recorded his team's results

Won	Lost
𝍸	𝍸 |

How many games did Pete's team win?
(A) 2 (B) 3 (C) 4 (D) 5

4) Lisa is using blocks like these to make numbers.



Which of these makes the number 35?

(A) (B) (C) (D)

ICAS - 2016

5) Which list gives three months, from the same year, in the correct order?

(A) January, August, April
(B) January, April, August
(C) April, January, August
(D) April, August, January

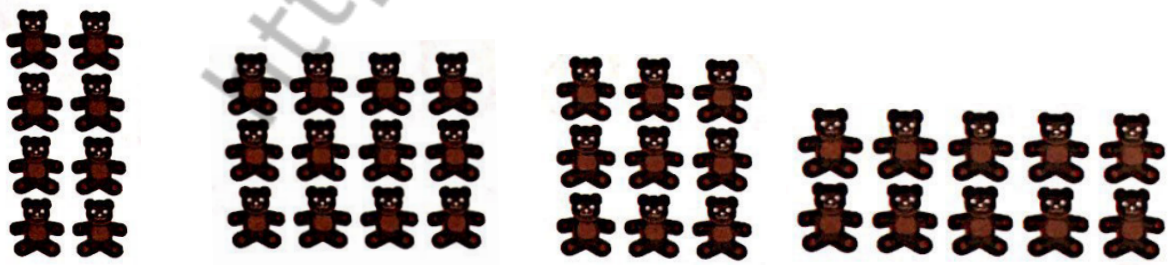
6) Ying arranged some bears in a pattern.

Shape 1: 

Shape 2: 

Shape 3: 

Which of these was Shape 4?



(A) (B) (C) (D)

7) Which of these numbers is between 65 and 72?

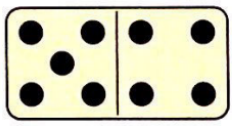
(A) 59 (B) 64 (C) 67 (D) 73

ICAS - 2016

8) Jim is matching dominoes by adding their spots together.

For example:

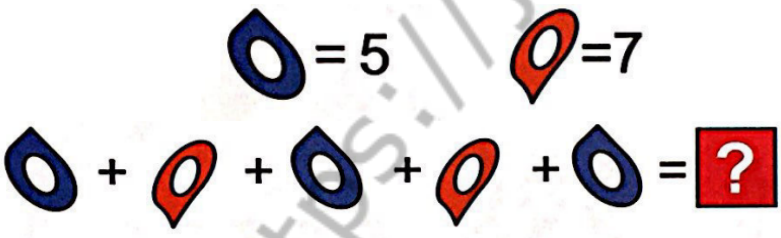
Jim picked up this domino.



Which domino matches it?

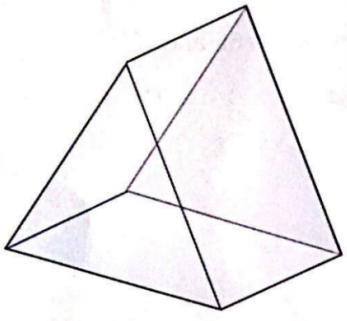
(A) (B) (C) (D)

9)



(A) 12 (B) 14 (C) 15 (D) 29

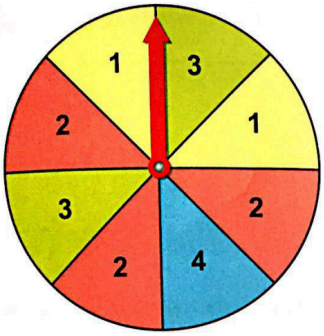
10) How many faces does this object have?



(A) 3 (B) 4 (C) 5 (D) 6

ICAS - 2016

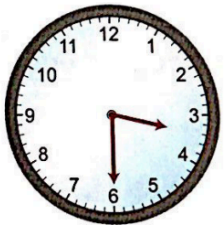
11) Lin has the spinner.

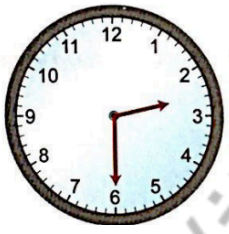


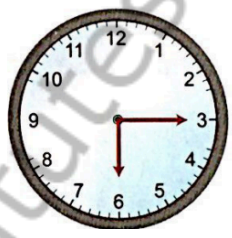
On which number is the spinner most likely to land?

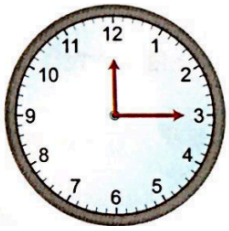
(A) 1 (B) 2 (C) 3 (D) 4

12) Which clock shows half past three?


(A)


(B)


(C)


(D)

13) Jim drew some pictures.

Which of these is impossible for him to draw?

(A) a cat with three legs
(B) a square with five sides
(C) a table with five legs
(D) a car with three wheels

14) Mark wrote this number sentence.

? + 3 = 4 + 7

What number must **?** be ?

(A) 14 (B) 11 (C) 9 (D) 8

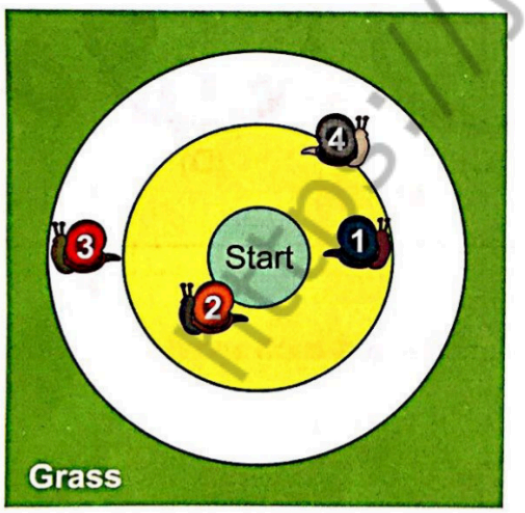
ICAS - 2016

15) Cai had 30 jelly beans.

He shared the jelly beans equally among his 5 friends, keeping none for himself. How many jelly beans did each friend receive?

(A) 5 (B) 6 (C) 25 (D) 35

16) Four snails started in the centre circle. The picture shows their positions after 5 minutes.

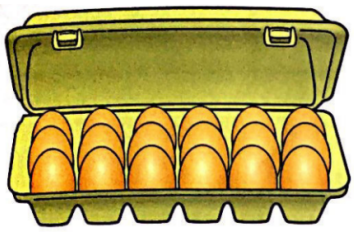


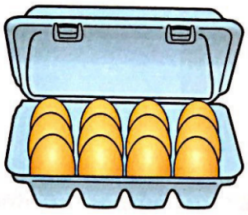
Which list gives the order of the snails, from the closest to the grass to the furthest from the grass?

(A) 3, 4, 1, 2 (B) 3, 1, 4, 2 (C) 1, 3, 4, 2 (D) 1, 4, 3, 2

ICAS - 2016

17) Jude has cartons in two sizes.
A large carton holds 18 eggs. A small carton holds 12 eggs.



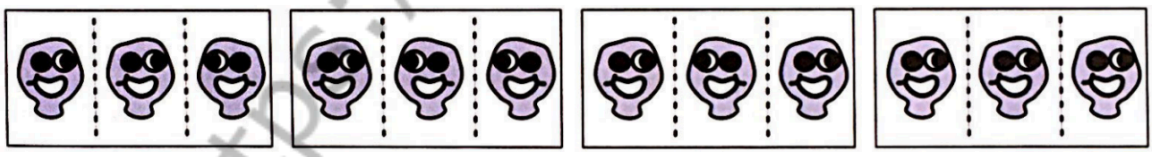


Jude filled 2 large cartons with eggs.
How many small cartons could Jude fill with these eggs?

(A) 6 (B) 5 (C) 4 (D) 3

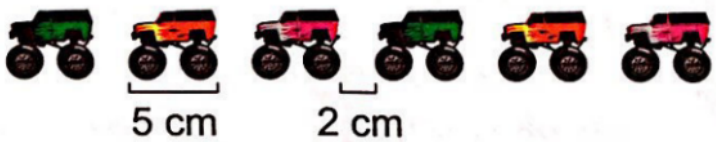
18) Sarah used this face to make a pattern. She flipped it over the dotted lines.

Which picture shows the result?



(A) (B) (C) (D)

19) Tina lined up 6 toy cars. Each car was 5 centimeters long. She left a 2 centimeter gap between each car and the next.



How long was this line of cars?

(A) 30 centimeters (B) 32 centimers
(C) 40 centimeters (D) 42 centimeters

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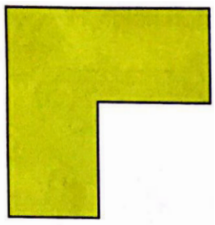
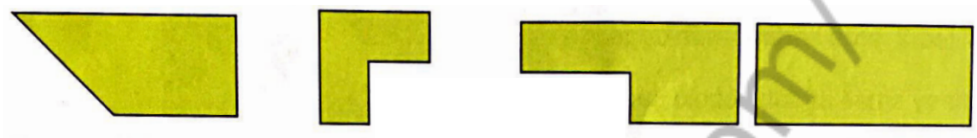
20) Ajay cut this shape in half.

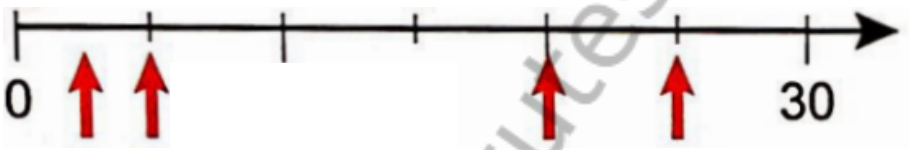


What was the size and shape of each piece?



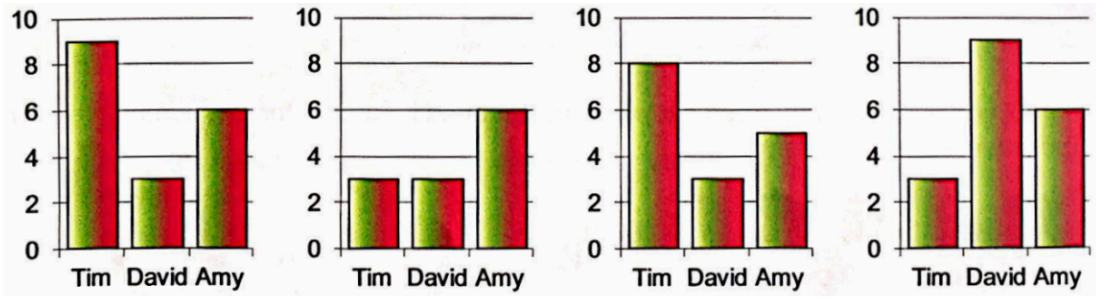
(A) (B) (C) (D)

21) Which arrow points to 5 on this number line?



(A) (B) (C) (D)

22) Tim, David and Amy picked some apples.
David picked 3 apples. Amy picked twice as many as David picked. Tim picked 3 more apples than Amy.
Which of these graphs shows the number of apples they each picked?



(A) (B) (C) (D)

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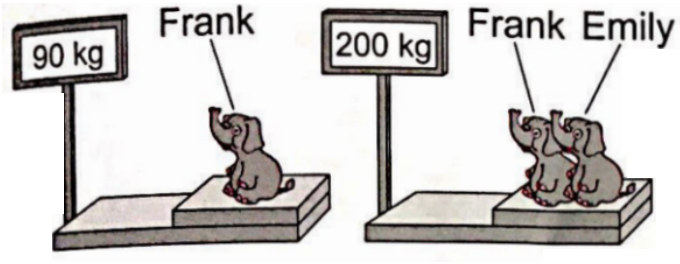
23) Emily and Frank and two baby elephants.



What is Emily's mass?

(A) 90 kilograms (B) 110 kilograms

(C) 190 kilograms (D) 200 kilograms

24) Pete made up this number pattern.

37	34	31	28	25	...

What are the next three numbers in the pattern?

(A)

21	18	15

(B)

22	17	14

(C)

22	19	16

(D)

24	23	22

25) The graph shows the number of goals scored by the school basketball team over four weeks.

Week	Number of goals
1	
2	
3	
4	

= 3 points
= 2 points
= 1 point

In which week did the team score the most points?

(A) 1 (B) 2 (C) 3 (D) 4

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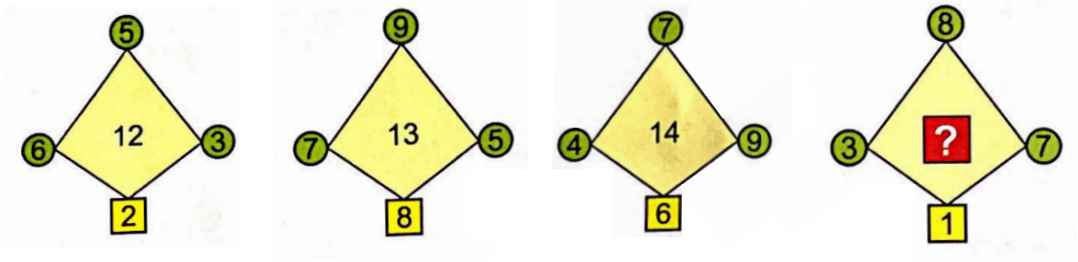
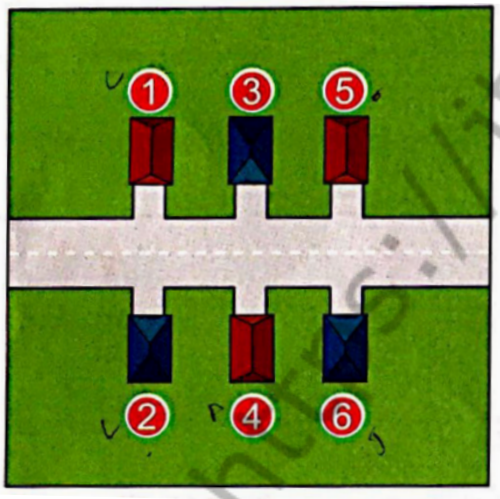
26) In each diagram, the outside numbers are used to calculate the middle number.



What number must ? be?

(A) 13 (B) 15 (C) 17 (D) 19

27) Colin, Aditi, Jake, Ben, Samira and Lin live in house on the same street.



Samira lives in house number 5. Colin lives on the same side of the street as Samira. Aditi lives in the house between Lin and Jake. Lin lives opposite Colin. What is the number of the house that Ben lives in?

(A) 4 (B) 3 (C) 2 (D) 1

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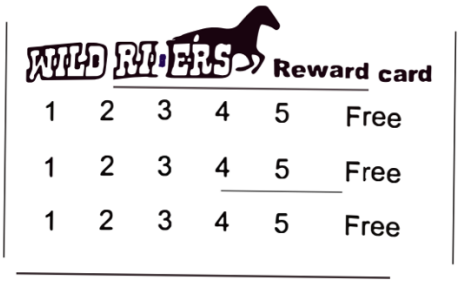
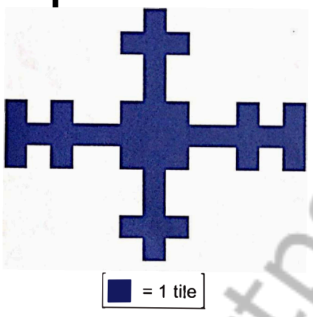
28) Jane gets one free horse-riding lesson for every 5 lessons her mum pays for at Wild Riders Pony Club.



Jane's mum only paid for 32 lessons using these reward cards. How many horse-riding lessons did Jane have?

(A) 32 (B) 37 (C) 38 (D) 39

29) Aditi joined square tiles if the same size to make this shape. The tiles do not overlap.



How many tiles did she use?

(A) 32 (B) 32 (C) 39 (D) 41

30) Debbie, Sue and Alice ran a race.
When Debbie had run 70 meters, Sue had run 40 meters and Alice was halfway between Debbie and Sue.
How many meters had Alice run?

(A) 20 (B) 35 (C) 50 (D) 55

TIMES TABLES

2 x 1 =	6 x 1 =	4 x 1 =
2 x 2 =	6 x 2 =	4 x 2 =
2 x 3 =	6 x 3 =	4 x 3 =
2 x 4 =	6 x 4 =	4 x 4 =
2 x 5 =	6 x 5 =	4 x 5 =
2 x 6 =	6 x 6 =	4 x 6 =
2 x 7 =	6 x 7 =	4 x 7 =
2 x 8 =	6 x 8 =	4 x 8 =
2 x 9 =	6 x 9 =	4 x 9 =
2 x 10 =	6 x 10 =	4 x 10 =

8 x 1 =	12 x 1 =	5 x 1 =
8 x 2 =	12 x 2 =	5 x 2 =
8 x 3 =	12 x 3 =	5 x 3 =
8 x 4 =	12 x 4 =	5 x 4 =
8 x 5 =	12 x 5 =	5 x 5 =
8 x 6 =	12 x 6 =	5 x 6 =
8 x 7 =	12 x 7 =	5 x 7 =
8 x 8 =	12 x 8 =	5 x 8 =
8 x 9 =	12 x 9 =	5 x 9 =
8 x 10 =	12 x 10 =	5 x 10 =

3 x 1 =	7 x 1 =	11 x 1 =
3 x 2 =	7 x 2 =	11 x 2 =
3 x 3 =	7 x 3 =	11 x 3 =
3 x 4 =	7 x 4 =	11 x 4 =
3 x 5 =	7 x 5 =	11 x 5 =
3 x 6 =	7 x 6 =	11 x 6 =
3 x 7 =	7 x 7 =	11 x 7 =
3 x 8 =	7 x 8 =	11 x 8 =
3 x 9 =	7 x 9 =	11 x 9 =
3 x 10 =	7 x 10 =	11 x 10 =

9 x 1 =	1 x 1 =	10 x 1 =
9 x 2 =	1 x 2 =	10 x 2 =
9 x 3 =	1 x 3 =	10 x 3 =
9 x 4 =	1 x 4 =	10 x 4 =
9 x 5 =	1 x 5 =	10 x 5 =
9 x 6 =	1 x 6 =	10 x 6 =
9 x 7 =	1 x 7 =	10 x 7 =
9 x 8 =	1 x 8 =	10 x 8 =
9 x 9 =	1 x 9 =	10 x 9 =
9 x 10 =	1 x 10 =	10 x 10 =