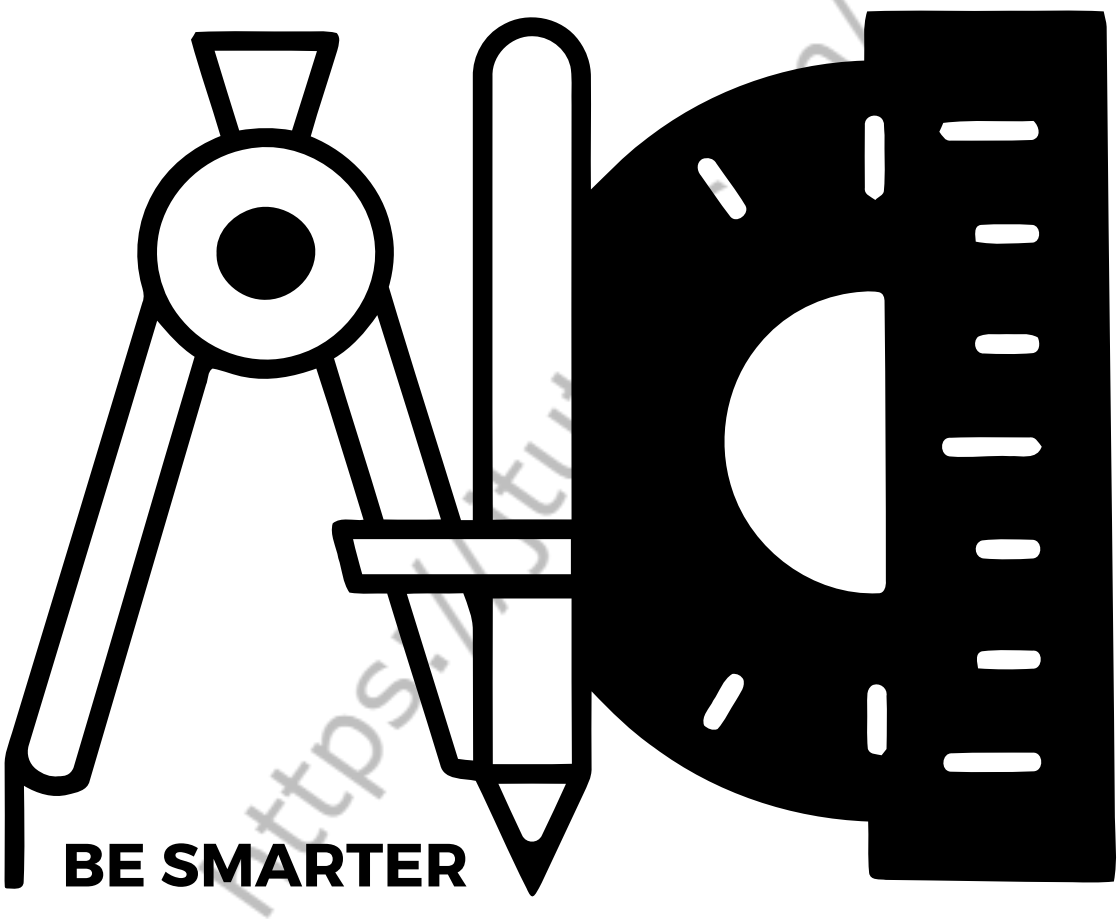
J-TUTES



YEAR 5 WORKBOOK

TERM 2 SYLLABUS

CHAPTER 1 - NAPLAN

MATERIAL FOR THIS WEEK WILL BE
PROVIDED BY YOUR TUTOR IN THE CLASS

CHAPTER 2 - NAPLAN

MATERIAL FOR THIS WEEK WILL BE
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CHAPTER 3 - NAPLAN

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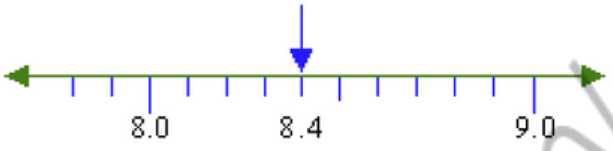
CHAPTER 4 -
DECIMALS ON A NUMBER LINE & ROUNDING

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

DECIMALS ON A NUMBER LINE

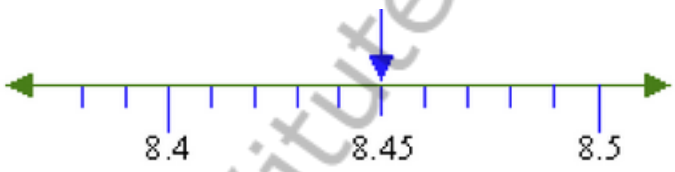
To represent a decimal on a number line, divide each segment of the number line into ten equal parts.

E.g. To represent 8.4 on a number line, divide the segment between 8 and 9 into ten equal parts.



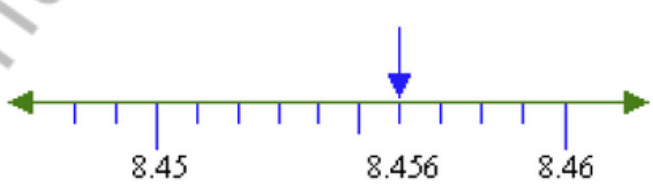
The arrow is four parts to the right of 8 where it points at 8.4.

Likewise, to represent 8.45 on a number line, divide the segment between 8.4 and 8.5 into ten equal parts.



The arrow is five parts to the right of 8.4 where it points at 8.45.

Similarly, we can represent 8.456 on a number line by dividing the segment between 8.45 and 8.46 into ten equal parts.



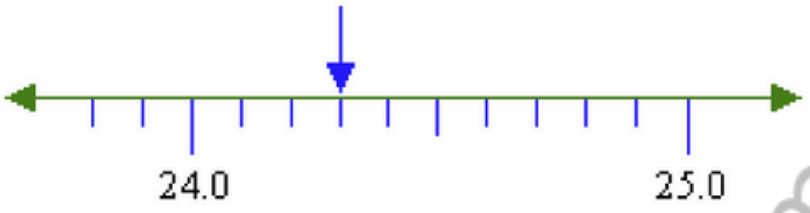
The arrow is six parts to the right of 8.45 where it points at 8.456.

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

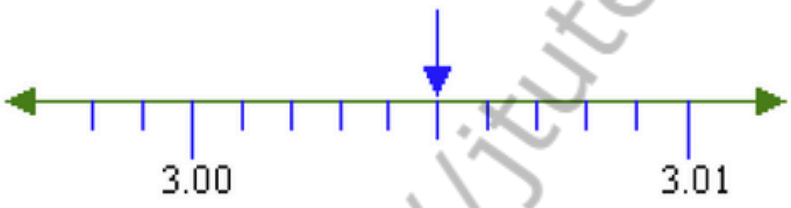
EXAMPLE

Write the decimal number that the arrow points at in the following diagrams:

a.



b.



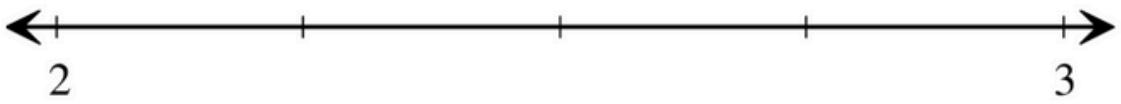
c.

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

BASIC DECIMAL REPRESENTATION

Fill in the number line with appropriate decimals

1)

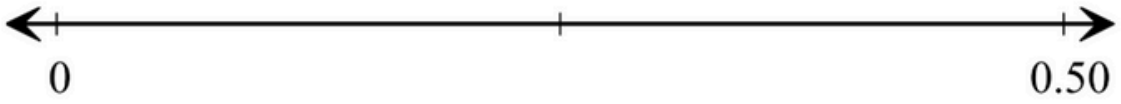


2)

3)

4)

5)

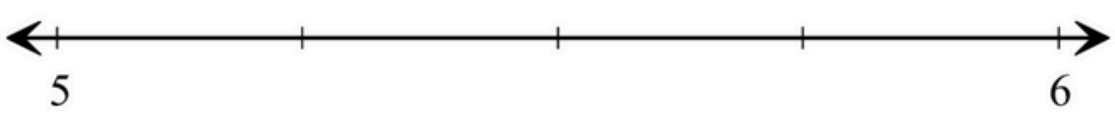


CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

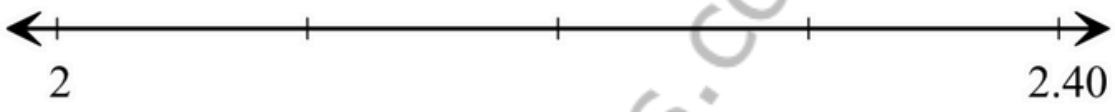
BASIC DECIMAL REPRESENTATION

Fill in the number line with appropriate decimals

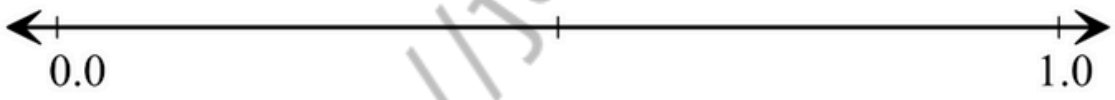
1)



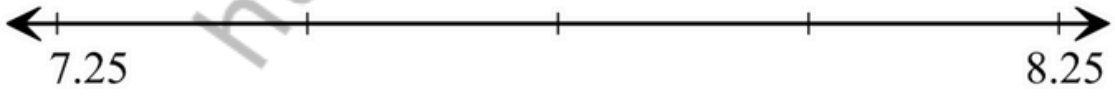
2)



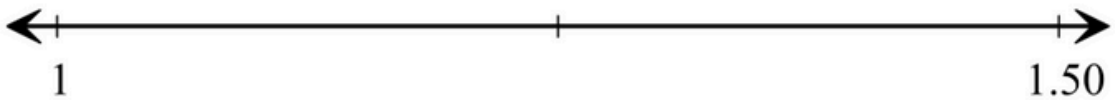
3)



4)



5)



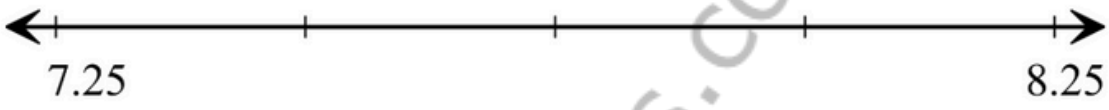
CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

BASIC DECIMAL REPRESENTATION

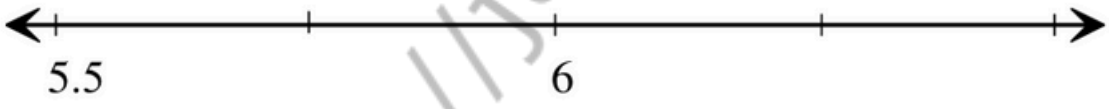
Fill in the number line with appropriate decimals

1)

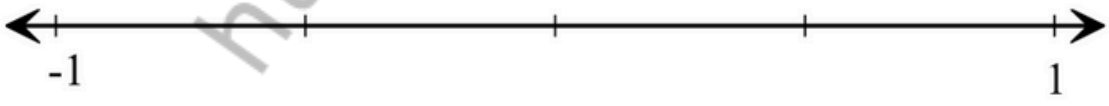
2)



3)



4)



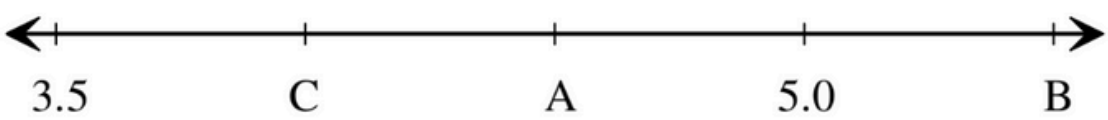
5)

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

IDENTIFY THE DECIMALS

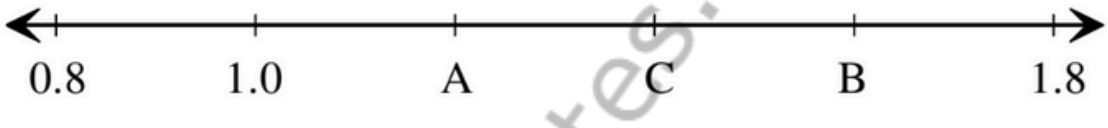
What decimal do the letter points to?

1)



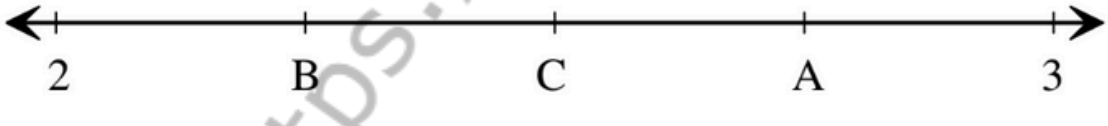
A = _____ B = _____ C = _____

2)



A = _____ B = _____ C = _____

3)



A = _____ B = _____ C = _____

4)

A = _____ B = _____ C = _____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

IDENTIFY THE DECIMALS

What decimal do the letter points to?

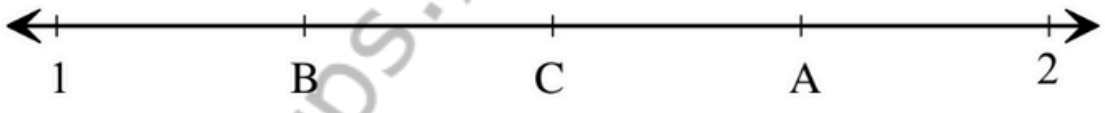
1)

A = _____ B = _____ C = _____

2)

A = _____ B = _____ C = _____

3)



A = _____ B = _____ C = _____

4)

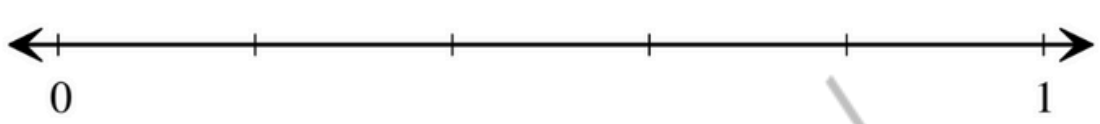
A = _____ B = _____ C = _____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

IDENTIFY THE DECIMALS USING NUMBER LINE

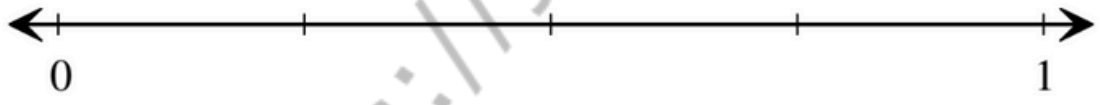
Complete the number line with appropriate fractions: (Do not simplify fractions)

1)



2)

3)



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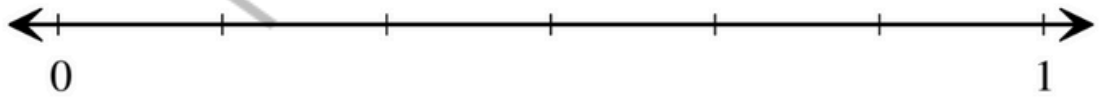
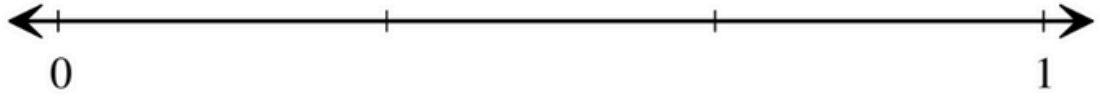


5)

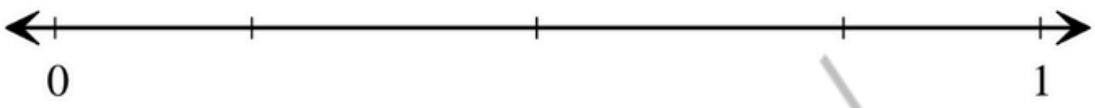


CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

IDENTIFY THE DECIMALS USING NUMBER LINE

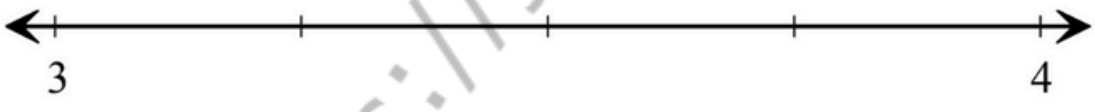
Complete the number line with appropriate fractions: (Do not simplify fractions)

1)

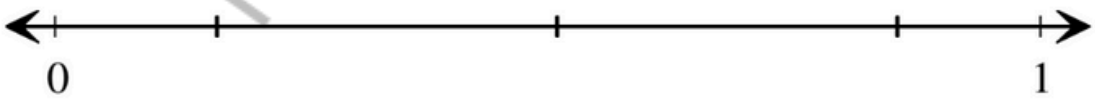


2)

3)



4)



5)

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

IDENTIFY THE DECIMALS USING NUMBER LINE

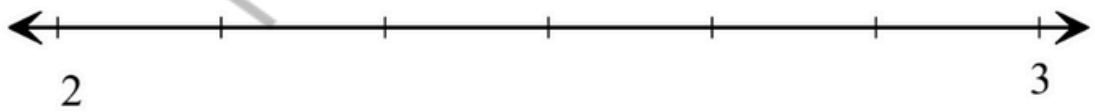
Complete the number line with appropriate fractions: (Do not simplify fractions)

1)

2)

3)

4)



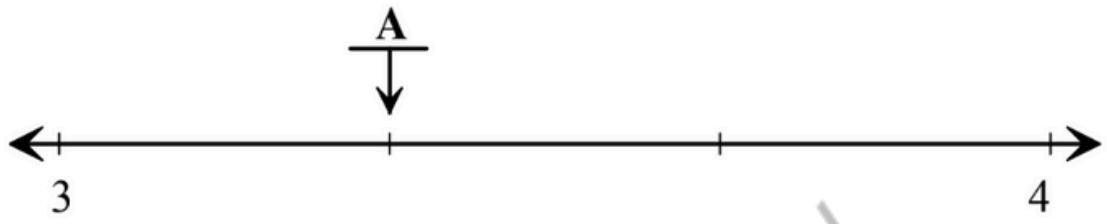
5)

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

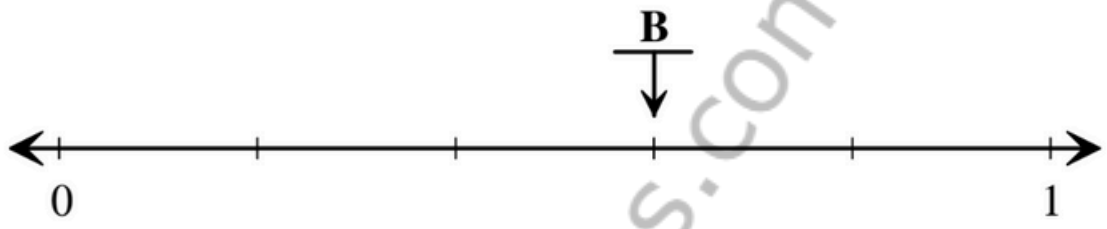
IDENTIFY THE DECIMALS USING NUMBER LINE

What fraction do the letter points to?

1)



2)



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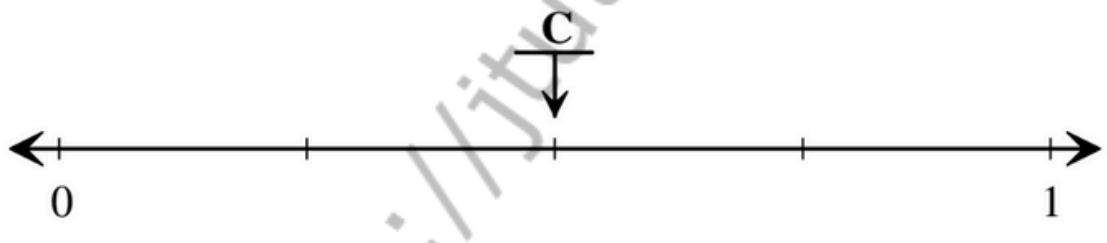
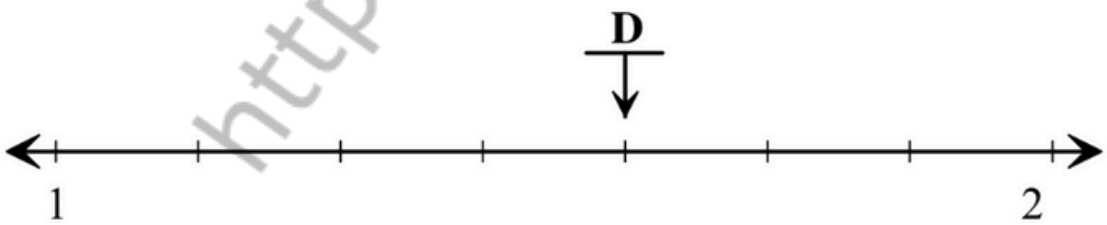
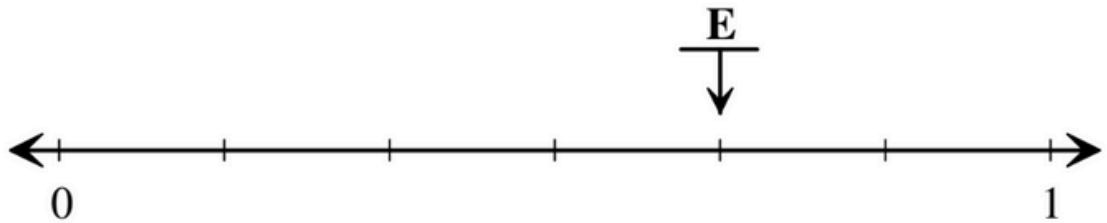


4)



5)

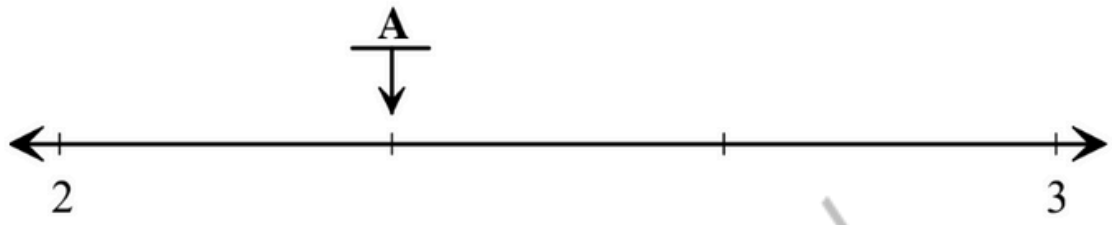


CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

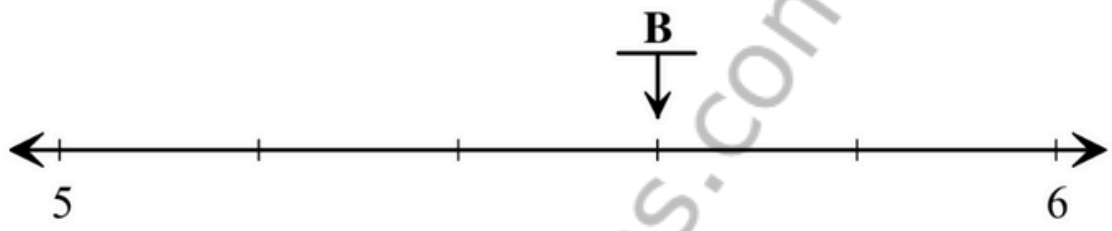
IDENTIFY THE DECIMALS USING NUMBER LINE

What fraction do the letter points to?

1)

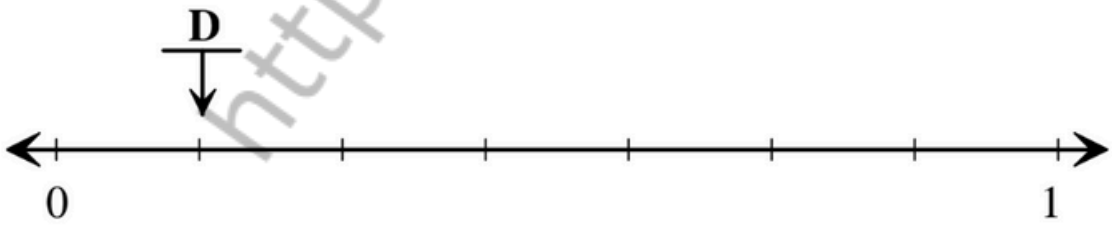


2)

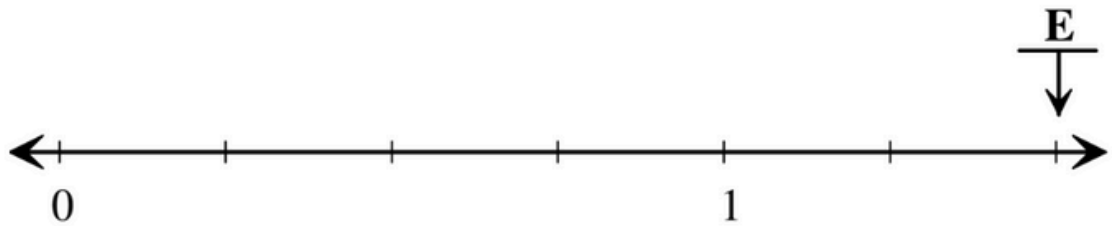


3)

4)



5)

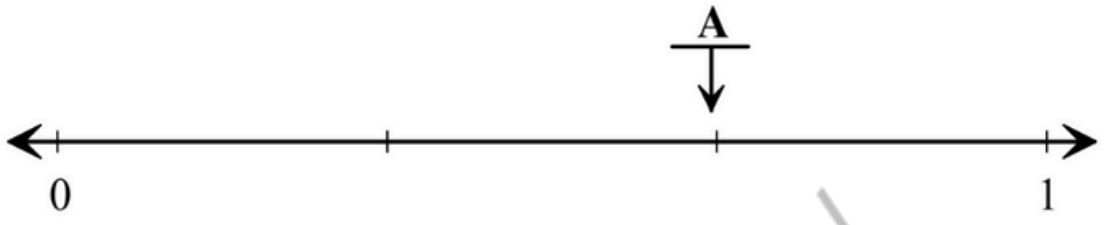


CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

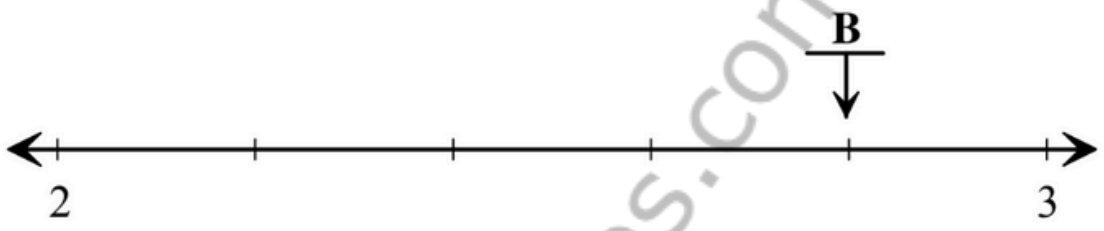
IDENTIFY THE DECIMALS USING NUMBER LINE

What fraction do the letter points to?

1)

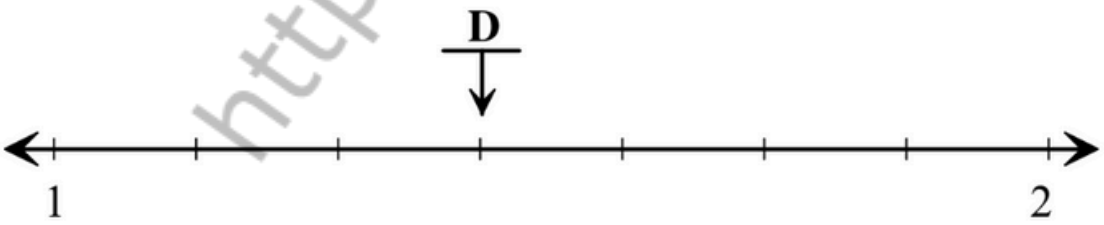


2)

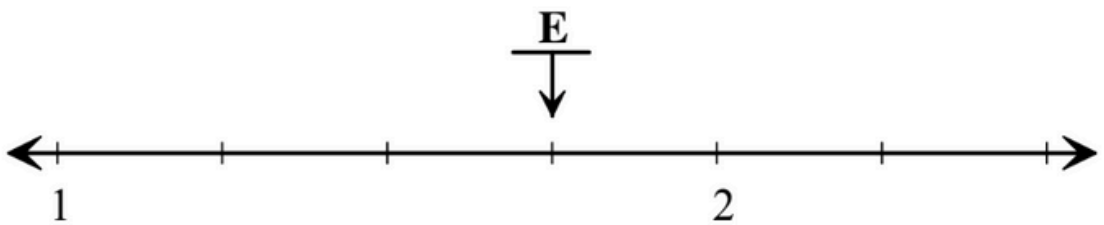


3)

4)



5)

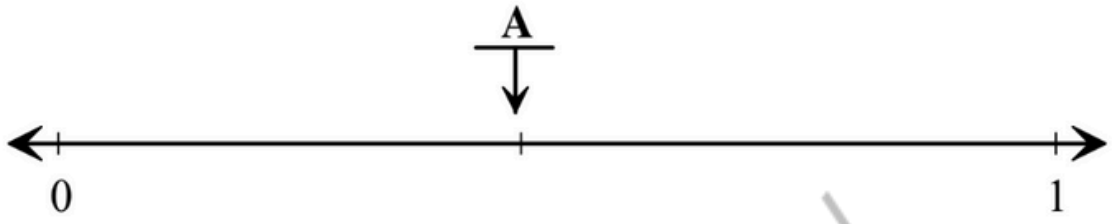


CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

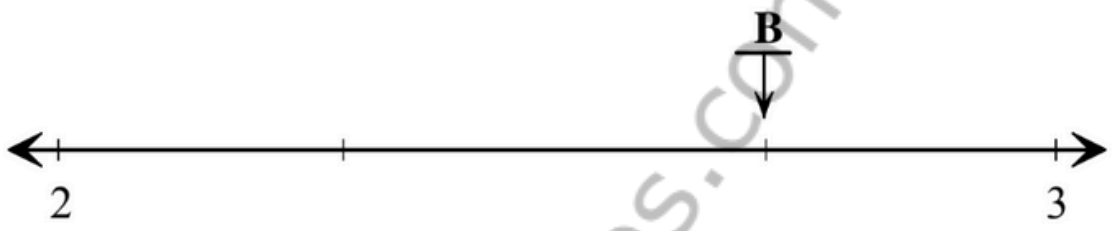
IDENTIFY THE DECIMALS USING NUMBER LINE

What fraction do the letter points to?

1)

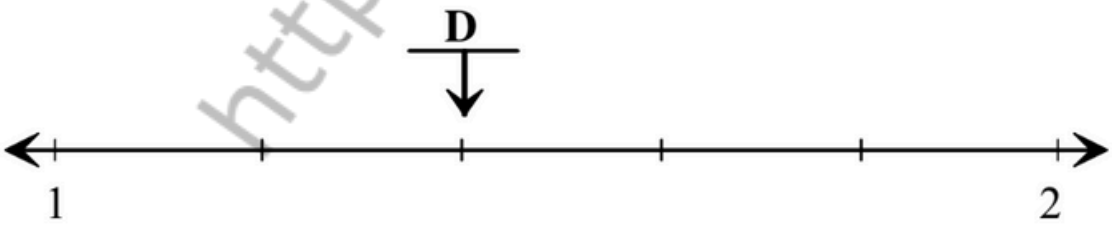


2)

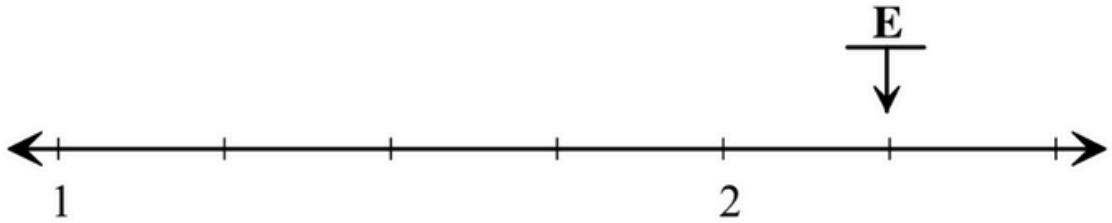


3)

4)



5)



CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO WHOLE NUMBERS

134.9 rounded to tens is 130

as the next digit (4) is less than 5

12,690 rounded to thousands is 13,000

as the next digit (6) is 5 or more

15.239 rounded to ones is 15

as the next digit (2) is less than 5

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO WHOLE NUMBERS

First work out which number will be left when we finish.

• Rounding to **tenths** means to leave **one number** after the decimal point.
• Rounding to **hundredths** means to leave **two numbers** after the decimal point.

3.1416 rounded to hundredths is 3.14

as the next digit (1) is less than 5

3.1416 rounded to thousandths is 3.142

as the next digit (6) is more than 5

1.2735 rounded to tenths is 1.3

as the next digit (7) is 5 or more

To round to "so many decimal places" count that many digits from the decimal point:

1.2735 rounded to 3 decimal places is 1.274

as the next digit (5) is 5 or more

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO WHOLE NUMBERS

A) Round each decimal to the nearest whole number using number line.

1) 73.6

i) Label 73.6 on the number line.

ii) Which is closer to 73.6? a) 73 b) 74

iii) 73.6 rounded to the nearest whole number is _____

2) 9.4

i) Label 9.4 on the number line.

ii) Which is closer to 9.4? a) 9 b) 10

iii) 9.4 rounded to the nearest whole number is _____

B) Round each decimal to the nearest whole number.

1)	54.19	_____	2)	31.7	_____
3)	9.6	_____	4)	7.52	_____
5)	21.38	_____	6)	45.9	_____
7)	6.5	_____	8)	1.43	_____
9)	83.28	_____	10)	77.1	_____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO WHOLE NUMBERS

A) Round each decimal to the nearest whole number using number line.

1) 5.2

i) Label 5.2 on the number line.

ii) Which is closer to 5.2? a) 5 b) 6

iii) 5.2 rounded to the nearest whole number is _____

2) 82.7

i) Label 82.7 on the number line.

ii) Which is closer to 82.7? a) 82 b) 83

iii) 82.7 rounded to the nearest whole number is _____

B) Round each decimal to the nearest whole number.

1)	6.14	_____	2)	9.32	_____
3)	35.9	_____	4)	17.8	_____
5)	5.01	_____	6)	7.5	_____
7)	24.2	_____	8)	40.64	_____
9)	3.97	_____	10)	8.9	_____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO WHOLE NUMBERS

A) Round each decimal to the nearest whole number using number line.

1) 31.1

i) Label 31.1 on the number line.

ii) Which is closer to 31.1? a) 31 b) 32

iii) 31.1 rounded to the nearest whole number is _____

2) 6.9

i) Label 6.9 on the number line.

ii) Which is closer to 6.9? a) 7 b) 6

iii) 6.9 rounded to the nearest whole number is _____

B) Round each decimal to the nearest whole number.

1)	37.4	_____	2)	7.01	_____
3)	5.69	_____	4)	16.3	_____
5)	89.7	_____	6)	2.8	_____
7)	4.13	_____	8)	61.56	_____
9)	78.61	_____	10)	9.1	_____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO NEAREST TENTH

A) Round each decimal to the nearest tenth using number line.

1) 59.14

i) Label 59.14 on the number line.

ii) Which is closer to 59.14? a) 59.2 b) 59.1

iii) 59.14 rounded to the nearest tenth is _____

2) 3.86

i) Label 3.86 on the number line.

ii) Which is closer to 3.86? a) 3.9 b) 3.8

iii) 3.86 rounded to the nearest tenth is _____

B) Round each decimal to the nearest tenth.

1)	51.686	_____	2)	9.13	_____
3)	3.421	_____	4)	67.39	_____
5)	75.537	_____	6)	1.254	_____
7)	2.45	_____	8)	46.812	_____
9)	84.78	_____	10)	6.40	_____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO NEAREST TENTH

A) Round each decimal to the nearest tenth using number line.

1) 6.31

i) Label 6.31 on the number line.

ii) Which is closer to 6.31? a) 6.3 b) 6.4

iii) 6.31 rounded to the nearest tenth is _____

2) 92.74

i) Label 92.74 on the number line.

ii) Which is closer to 92.74? a) 92.8 b) 92.7

iii) 92.74 rounded to the nearest tenth is _____

B) Round each decimal to the nearest tenth.

1)	4.059	_____	2)	68.245	_____
3)	17.82	_____	4)	9.472	_____
5)	8.18	_____	6)	32.37	_____
7)	51.594	_____	8)	7.60	_____
9)	2.71	_____	10)	49.923	_____

CHAPTER 4 - DECIMALS ON A NUMBER LINE & ROUNDING

ROUNDING TO NEAREST TENTH

A) Round each decimal to the nearest tenth using number line.

1) 17.68

i) Label 17.68 on the number line.

ii) Which is closer to 17.68? a) 17.6 b) 17.7

iii) 17.68 rounded to the nearest tenth is _____

2) 46.42

i) Label 46.42 on the number line.

ii) Which is closer to 46.42? a) 46.5 b) 46.4

iii) 46.42 rounded to the nearest tenth is _____

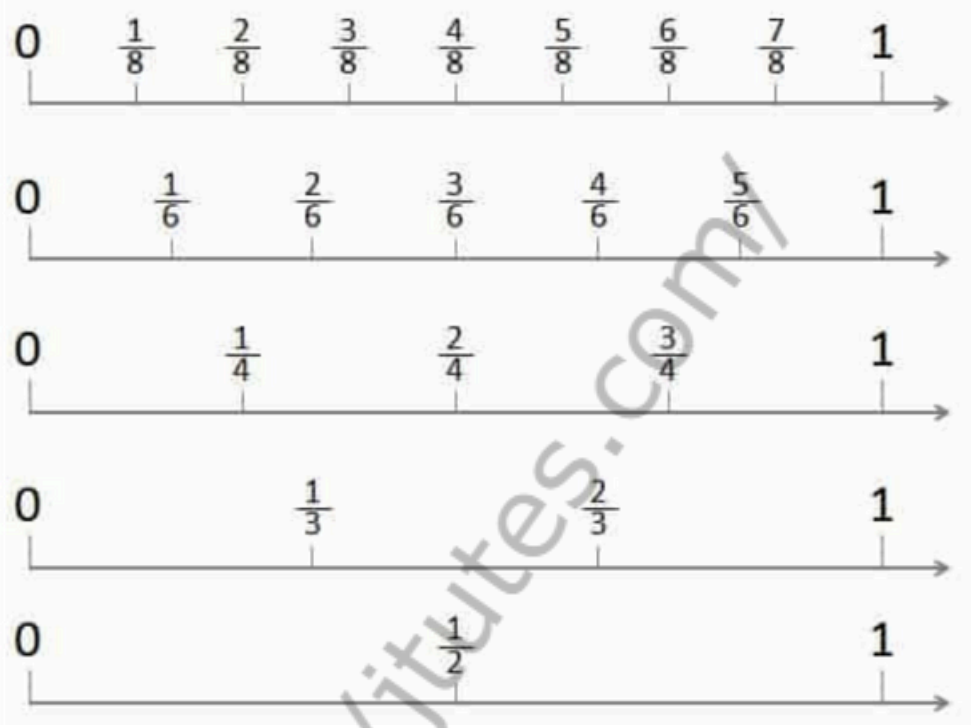
B) Round each decimal to the nearest tenth.

1)	95.704	_____	2)	80.52	_____
3)	4.917	_____	4)	2.173	_____
5)	68.35	_____	6)	5.83	_____
7)	72.64	_____	8)	19.275	_____
9)	3.46	_____	10)	4.171	_____

CHAPTER 5 -
FRACTIONS ON A NUMBER LINE
& EQUIVALENT FRACTIONS

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS ON A NUMBER LINE

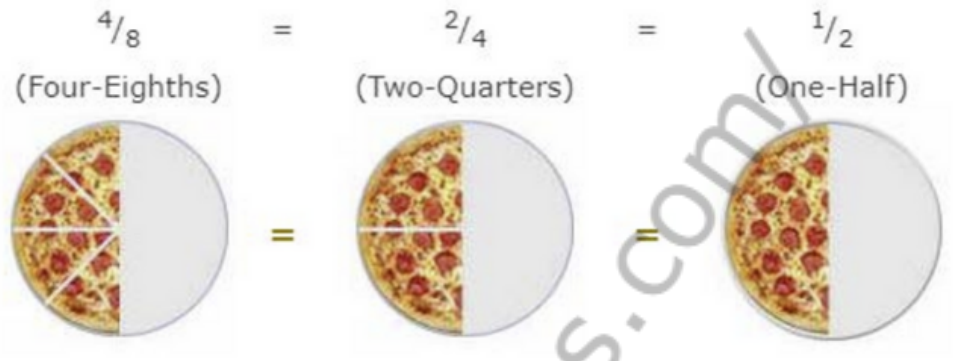


DIVIDING INTO 4 PARTS

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

EQUIVALENT FRACTIONS

Some fractions may look different, but are really the same, for example:



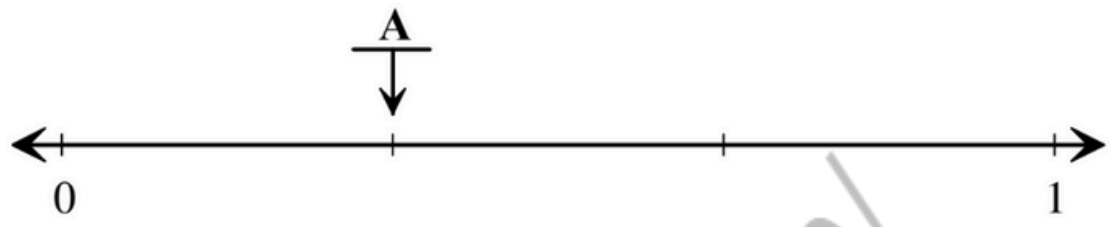
It is usually best to show an answer using the simplest fraction (1/2 in this case). That is called Simplifying, or Reducing the Fraction

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

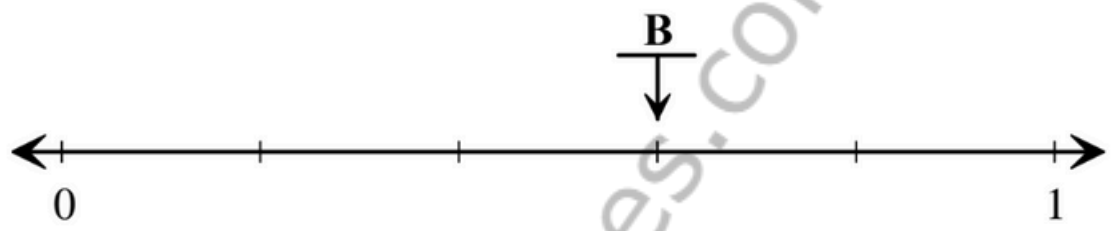
IDENTIFY THE FRACTION USING NUMBER LINE

What fraction do the letter points to?

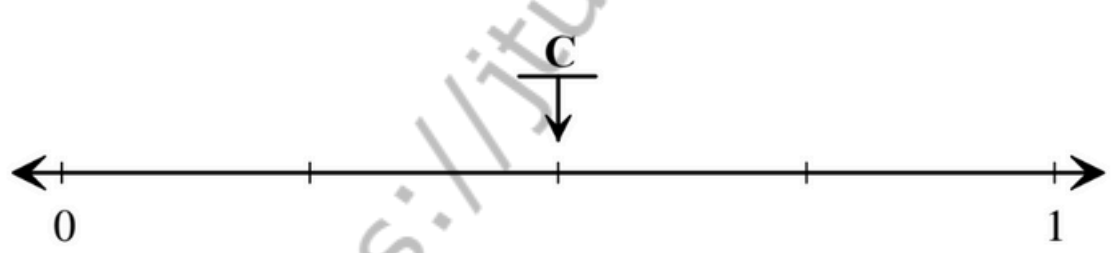
1)



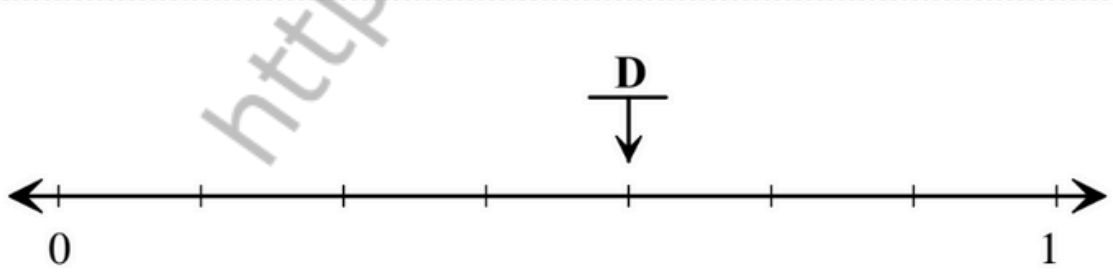
2)



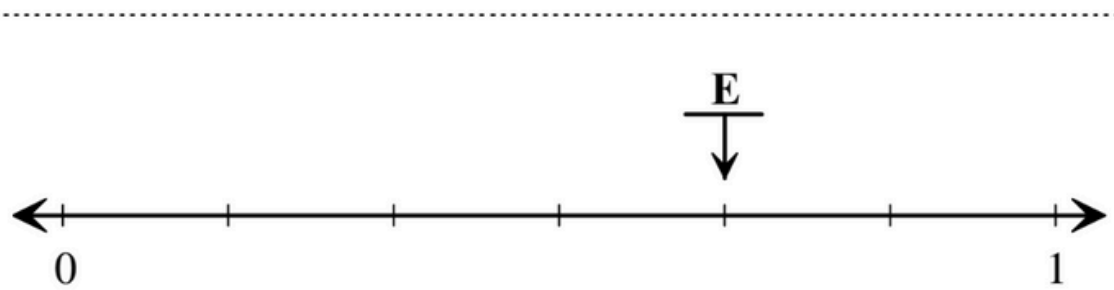
3)



4)



5)

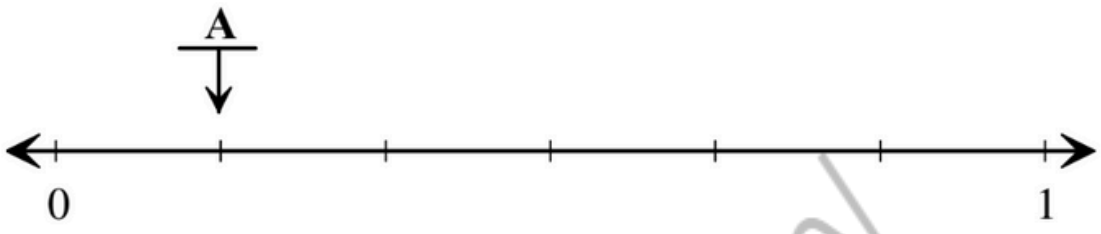


CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

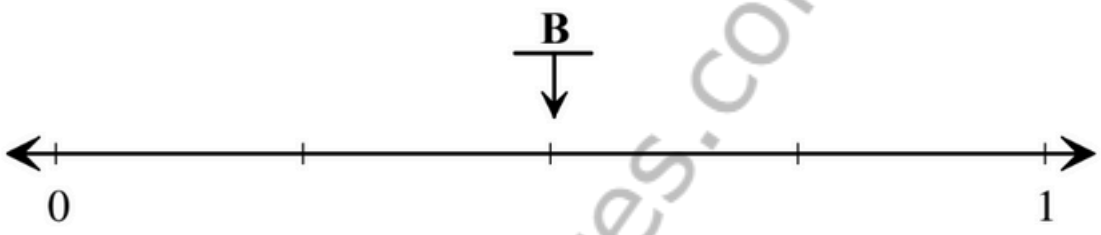
IDENTIFY THE FRACTION USING NUMBER LINE

What fraction do the letter points to?

1)

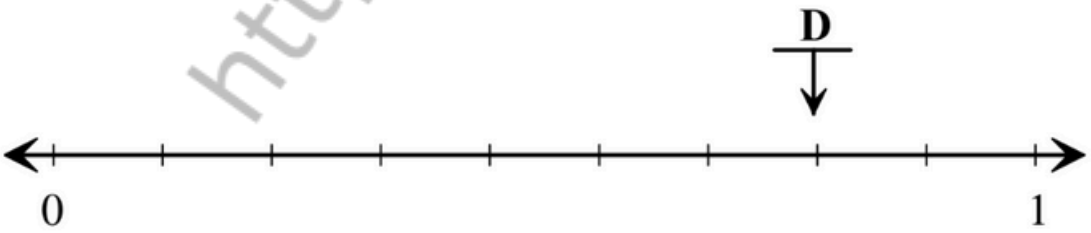


2)

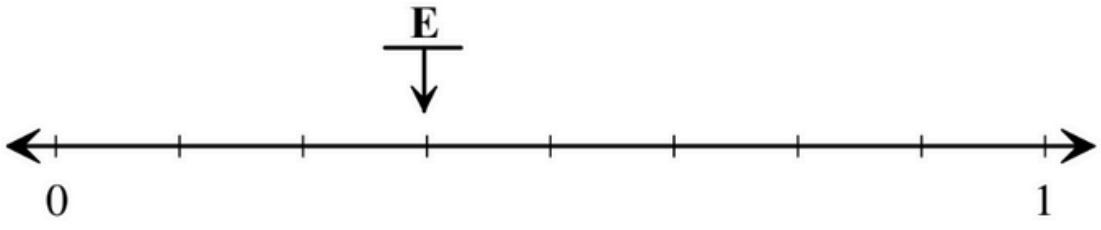


3)

4)



5)

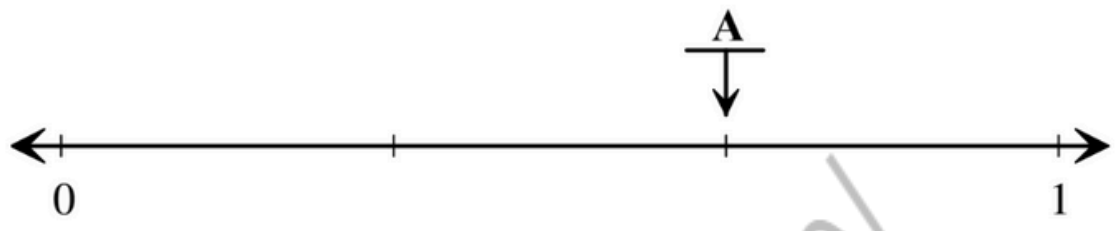


CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

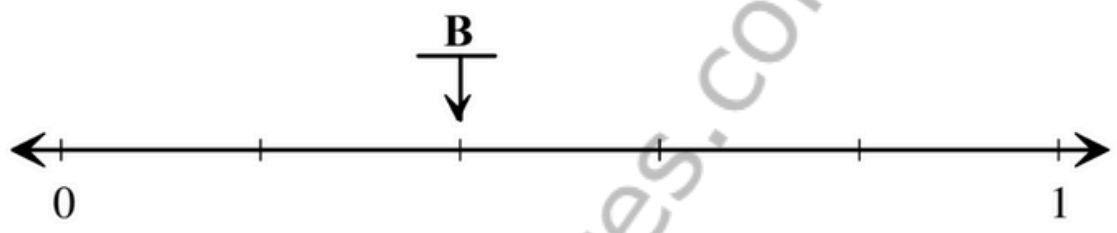
IDENTIFY THE FRACTION USING NUMBER LINE

What fraction do the letter points to?

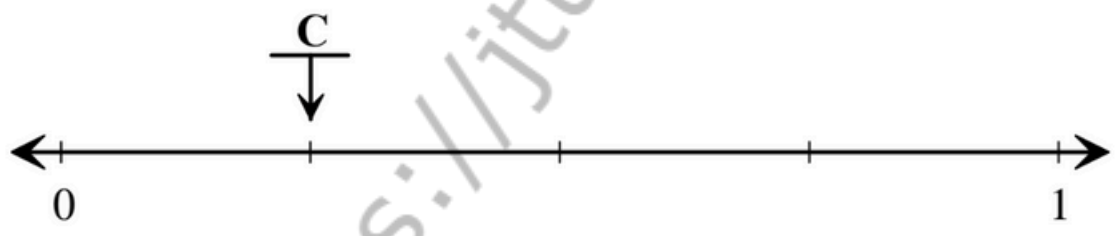
1)



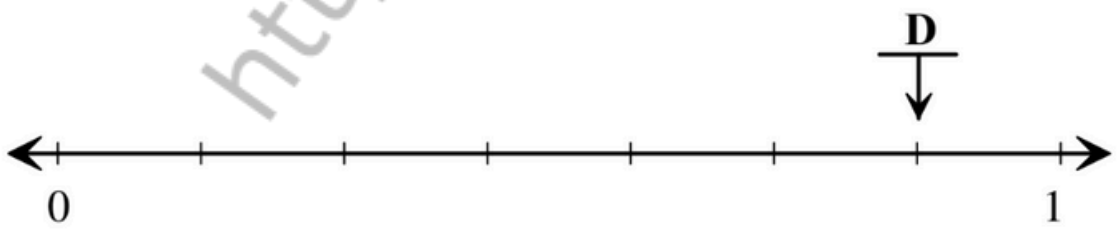
2)



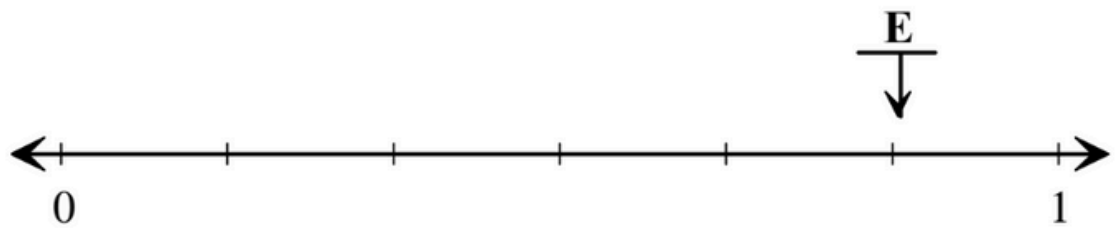
3)



4)



5)

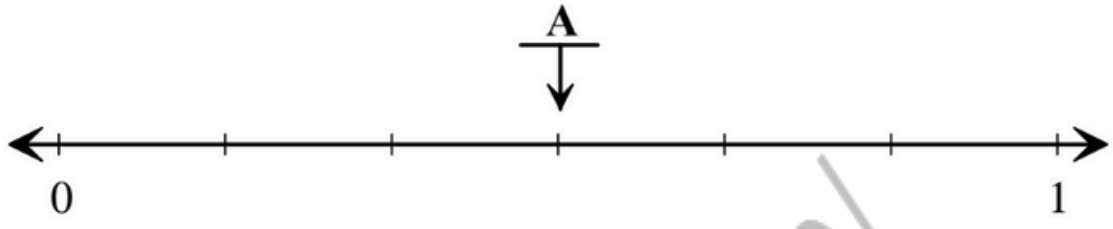


CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

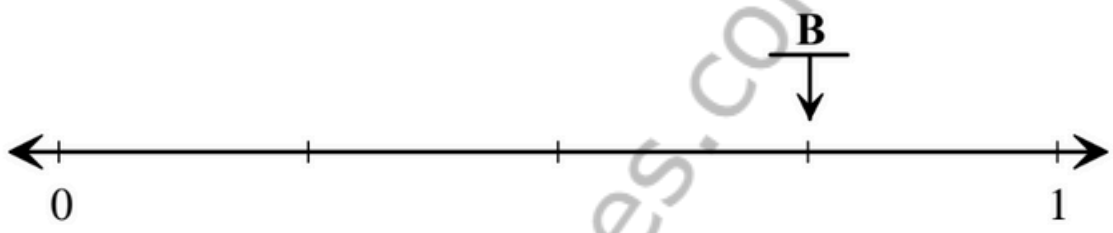
IDENTIFY THE FRACTION USING NUMBER LINE

What fraction do the letter points to?

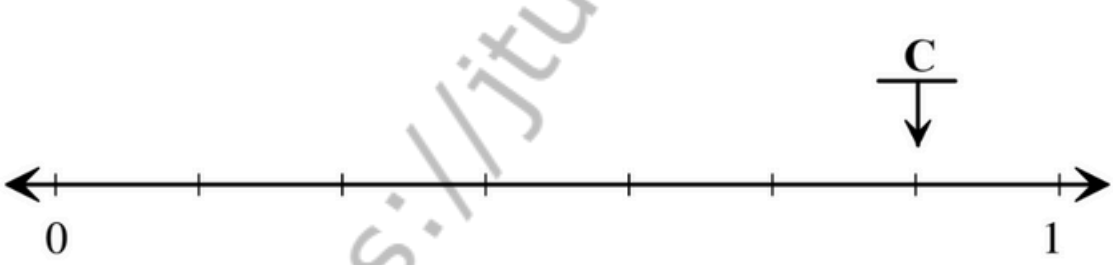
1)



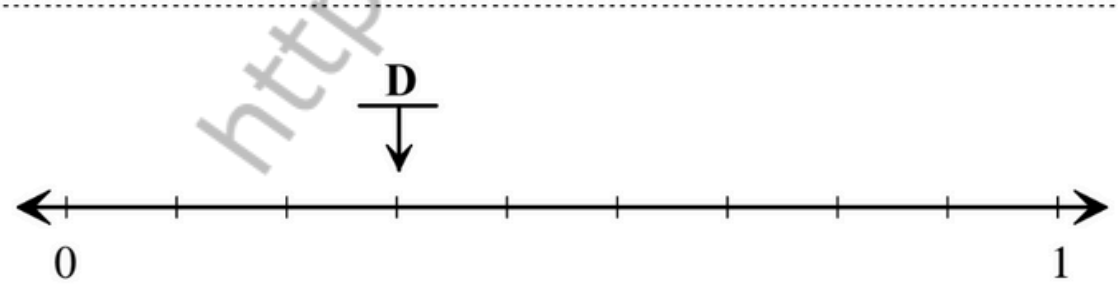
2)



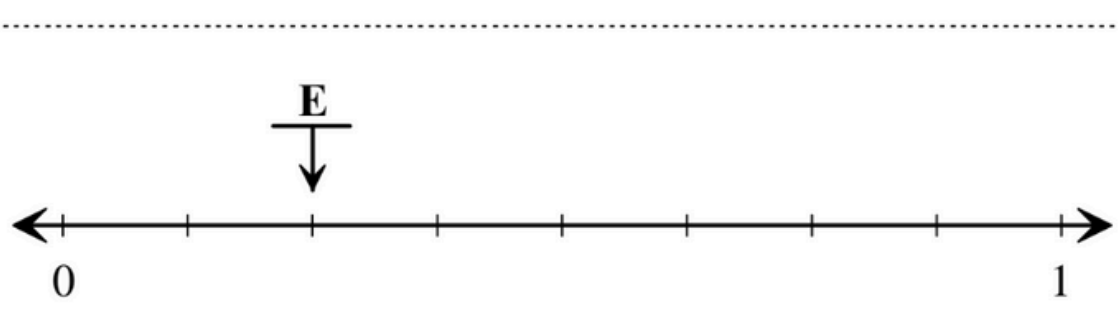
3)



4)



5)

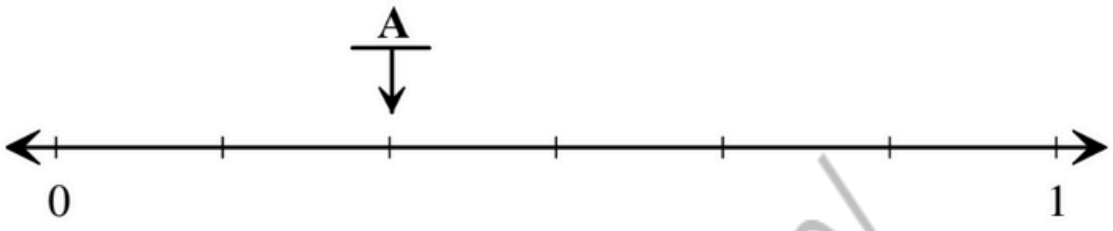


CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

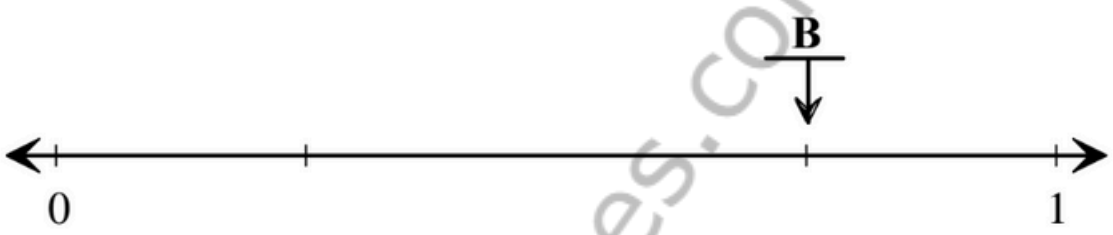
IDENTIFY THE FRACTION USING NUMBER LINE

What fraction do the letter points to?

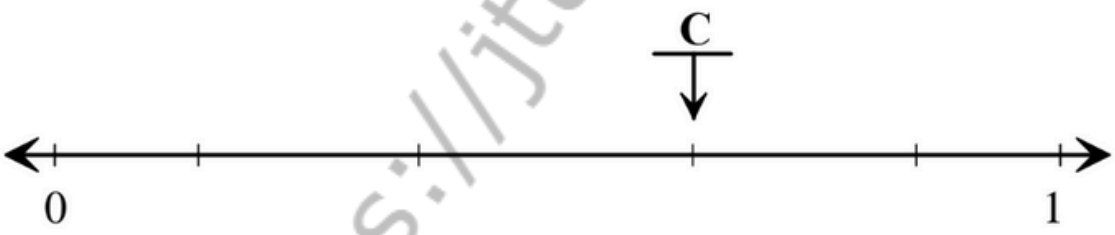
1)



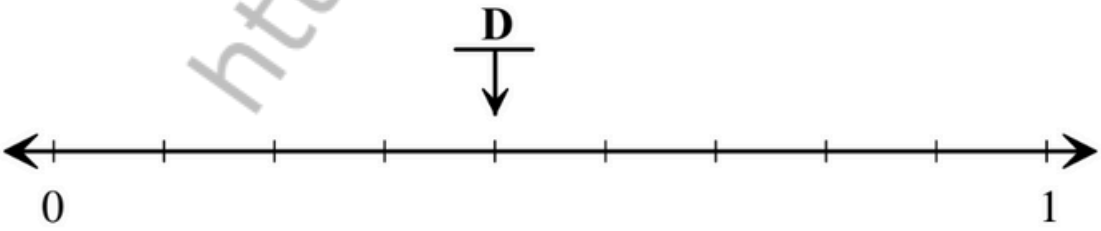
2)



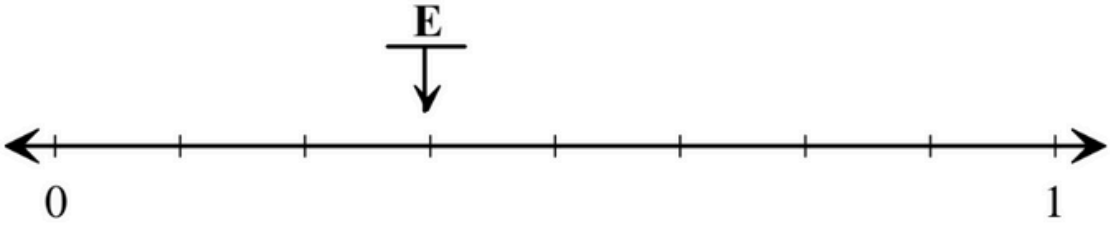
3)



4)



5)

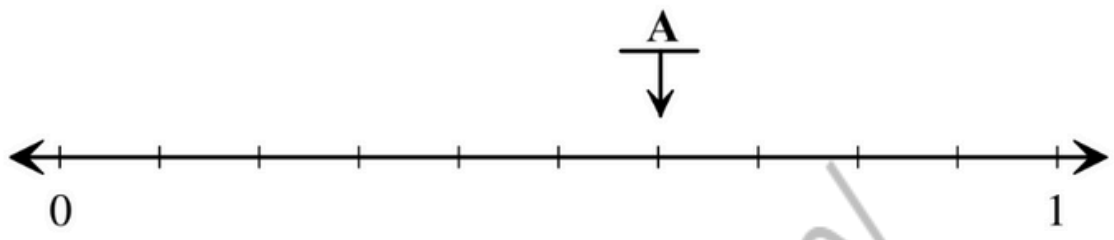


CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

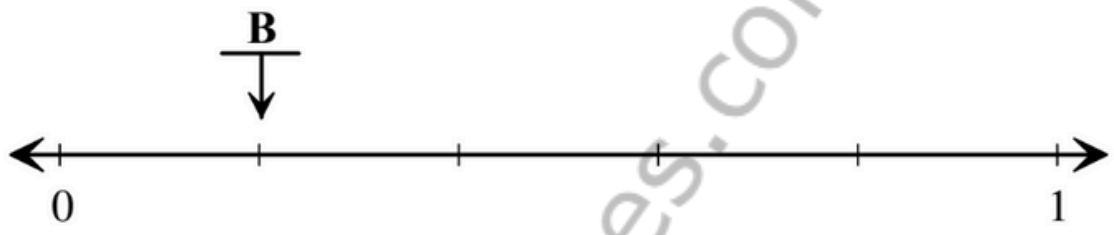
IDENTIFY THE FRACTION USING NUMBER LINE

What fraction do the letter points to?

1)

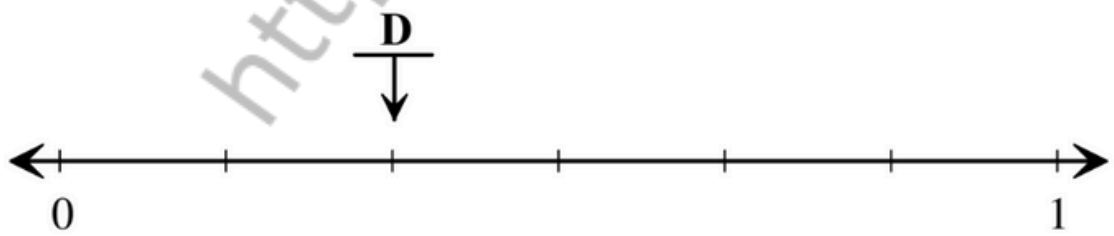


2)

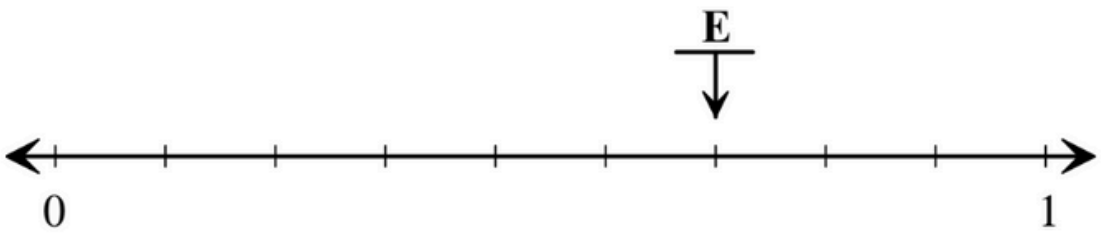


3)

4)



5)



CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

IDENTIFY THE FRACTION

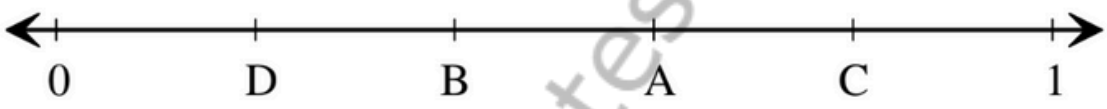
What fraction do the letter points to?

1)

A = _____ B = _____ C = _____

D = _____ E = _____ F = _____

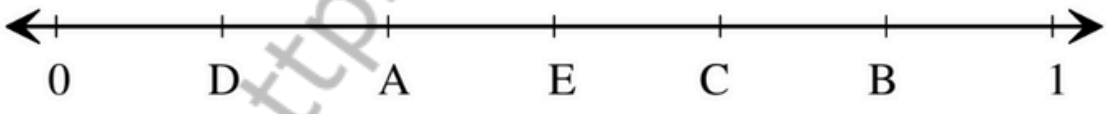
2)



A = _____ B = _____

C = _____ D = _____

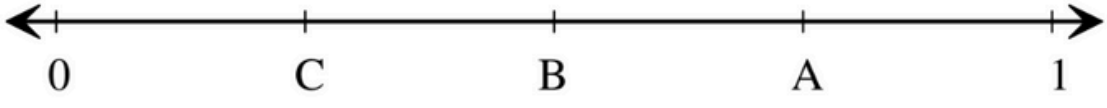
3)



A = _____ B = _____ C = _____

D = _____ E = _____

4)



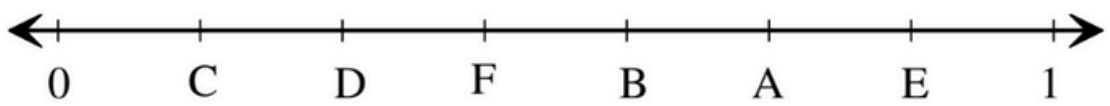
A = _____ B = _____ C = _____

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

IDENTIFY THE FRACTION

What fraction do the letter points to?

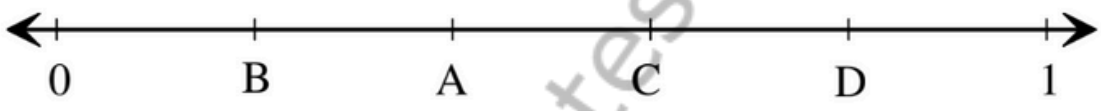
1)



A = _____ B = _____ C = _____

D = _____ E = _____ F = _____

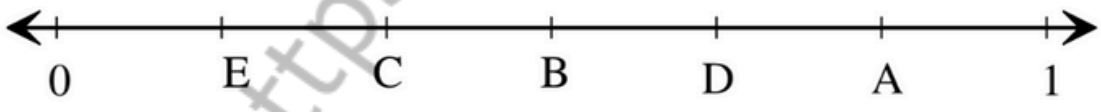
2)



A = _____ B = _____

C = _____ D = _____

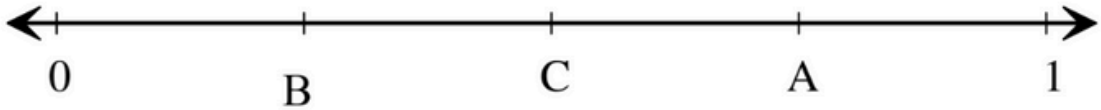
3)



A = _____ B = _____ C = _____

D = _____ E = _____

4)



A = _____ B = _____ C = _____

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

IDENTIFY THE FRACTION

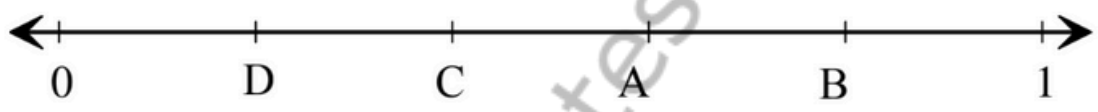
What fraction do the letter points to?

1)

A = _____ B = _____ C = _____

D = _____ E = _____ F = _____

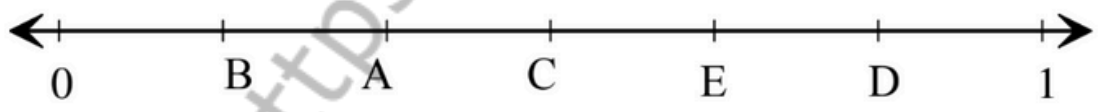
2)



A = _____ B = _____

C = _____ D = _____

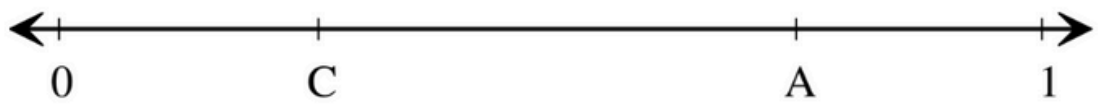
3)



A = _____ B = _____ C = _____

D = _____ E = _____

4)



A = _____ C = _____

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{36}{30} = \frac{\quad}{5}$	**1 b.** $\frac{1}{12} = \frac{3}{\quad}$	**1 c.** $\frac{14}{\quad} = \frac{1}{2}$
2 a. $\frac{1}{1} = \frac{30}{\quad}$	**2 b.** $\frac{30}{30} = \frac{\quad}{1}$	**2 c.** $\frac{30}{\quad} = \frac{5}{2}$
3 a. $\frac{\quad}{5} = \frac{5}{25}$	**3 b.** $\frac{39}{6} = \frac{13}{\quad}$	**3 c.** $\frac{\quad}{18} = \frac{1}{1}$
4 a. $\frac{2}{\quad} = \frac{10}{35}$	**4 b.** $\frac{\quad}{17} = \frac{18}{34}$	**4 c.** $\frac{10}{15} = \frac{2}{\quad}$
5 a. $\frac{1}{\quad} = \frac{4}{36}$	**5 b.** $\frac{1}{2} = \frac{\quad}{4}$	**5 c.** $\frac{\quad}{18} = \frac{5}{6}$
6 a. $\frac{14}{35} = \frac{2}{\quad}$	**6 b.** $\frac{\quad}{2} = \frac{30}{4}$	**6 c.** $\frac{1}{\quad} = \frac{3}{9}$
7 a. $\frac{4}{1} = \frac{40}{\quad}$	**7 b.** $\frac{2}{1} = \frac{\quad}{7}$	**7 c.** $\frac{13}{11} = \frac{\quad}{33}$
8 a. $\frac{28}{4} = \frac{\quad}{1}$	**8 b.** $\frac{\quad}{13} = \frac{34}{26}$	**8 c.** $\frac{1}{\quad} = \frac{12}{36}$
9 a. $\frac{1}{2} = \frac{9}{\quad}$	**9 b.** $\frac{4}{\quad} = \frac{12}{21}$	**9 c.** $\frac{\quad}{10} = \frac{7}{2}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{\quad}{1} = \frac{28}{4}$	**1 b.** $\frac{6}{1} = \frac{\quad}{6}$	**1 c.** $\frac{28}{12} = \frac{7}{\quad}$
2 a. $\frac{32}{2} = \frac{\quad}{1}$	**2 b.** $\frac{16}{\quad} = \frac{1}{1}$	**2 c.** $\frac{34}{\quad} = \frac{2}{1}$
3 a. $\frac{6}{24} = \frac{\quad}{4}$	**3 b.** $\frac{7}{6} = \frac{28}{\quad}$	**3 c.** $\frac{2}{1} = \frac{36}{\quad}$
4 a. $\frac{9}{1} = \frac{27}{\quad}$	**4 b.** $\frac{2}{\quad} = \frac{16}{24}$	**4 c.** $\frac{\quad}{2} = \frac{15}{30}$
5 a. $\frac{\quad}{30} = \frac{9}{10}$	**5 b.** $\frac{12}{8} = \frac{\quad}{2}$	**5 c.** $\frac{16}{18} = \frac{\quad}{9}$
6 a. $\frac{28}{\quad} = \frac{2}{1}$	**6 b.** $\frac{1}{\quad} = \frac{3}{3}$	**6 c.** $\frac{1}{4} = \frac{4}{\quad}$
7 a. $\frac{22}{2} = \frac{\quad}{1}$	**7 b.** $\frac{33}{12} = \frac{11}{\quad}$	**7 c.** $\frac{\quad}{12} = \frac{21}{36}$
8 a. $\frac{32}{16} = \frac{\quad}{1}$	**8 b.** $\frac{\quad}{40} = \frac{3}{20}$	**8 c.** $\frac{24}{28} = \frac{6}{\quad}$
9 a. $\frac{3}{4} = \frac{\quad}{12}$	**9 b.** $\frac{2}{13} = \frac{\quad}{39}$	**9 c.** $\frac{1}{\quad} = \frac{17}{17}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{22}{\_\_} = \frac{11}{2}$	**1 b.** $\frac{13}{2} = \frac{26}{\_\_}$	**1 c.** $\frac{12}{27} = \frac{\_\_}{9}$
2 a. $\frac{14}{21} = \frac{2}{\_\_}$	**2 b.** $\frac{1}{2} = \frac{7}{\_\_}$	**2 c.** $\frac{\_\_}{16} = \frac{3}{4}$
3 a. $\frac{\_\_}{3} = \frac{38}{6}$	**3 b.** $\frac{\_\_}{3} = \frac{14}{21}$	**3 c.** $\frac{15}{9} = \frac{\_\_}{3}$
4 a. $\frac{13}{4} = \frac{\_\_}{12}$	**4 b.** $\frac{7}{4} = \frac{21}{\_\_}$	**4 c.** $\frac{11}{19} = \frac{\_\_}{38}$
5 a. $\frac{8}{9} = \frac{16}{\_\_}$	**5 b.** $\frac{6}{\_\_} = \frac{24}{4}$	**5 c.** $\frac{5}{\_\_} = \frac{20}{32}$
6 a. $\frac{11}{\_\_} = \frac{33}{24}$	**6 b.** $\frac{23}{\_\_} = \frac{1}{1}$	**6 c.** $\frac{2}{5} = \frac{\_\_}{25}$
7 a. $\frac{3}{1} = \frac{30}{\_\_}$	**7 b.** $\frac{\_\_}{2} = \frac{28}{8}$	**7 c.** $\frac{\_\_}{18} = \frac{1}{9}$
8 a. $\frac{3}{8} = \frac{\_\_}{40}$	**8 b.** $\frac{\_\_}{4} = \frac{1}{1}$	**8 c.** $\frac{3}{\_\_} = \frac{1}{5}$
9 a. $\frac{6}{\_\_} = \frac{18}{21}$	**9 b.** $\frac{5}{\_\_} = \frac{40}{24}$	**9 c.** $\frac{5}{1} = \frac{15}{\_\_}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{7}{8} = \frac{21}{\_\_}$	**1 b.** $\frac{15}{27} = \frac{\_\_}{9}$	**1 c.** $\frac{33}{30} = \frac{\_\_}{10}$
2 a. $\frac{5}{13} = \frac{\_\_}{39}$	**2 b.** $\frac{10}{25} = \frac{\_\_}{5}$	**2 c.** $\frac{11}{\_\_} = \frac{33}{27}$
3 a. $\frac{1}{2} = \frac{\_\_}{38}$	**3 b.** $\frac{4}{\_\_} = \frac{2}{17}$	**3 c.** $\frac{3}{\_\_} = \frac{1}{10}$
4 a. $\frac{\_\_}{1} = \frac{34}{17}$	**4 b.** $\frac{13}{5} = \frac{39}{\_\_}$	**4 c.** $\frac{\_\_}{3} = \frac{8}{12}$
5 a. $\frac{2}{1} = \frac{\_\_}{12}$	**5 b.** $\frac{30}{39} = \frac{10}{\_\_}$	**5 c.** $\frac{1}{1} = \frac{18}{\_\_}$
6 a. $\frac{\_\_}{16} = \frac{3}{2}$	**6 b.** $\frac{8}{16} = \frac{1}{\_\_}$	**6 c.** $\frac{15}{\_\_} = \frac{5}{4}$
7 a. $\frac{36}{\_\_} = \frac{12}{1}$	**7 b.** $\frac{2}{\_\_} = \frac{6}{21}$	**7 c.** $\frac{\_\_}{1} = \frac{21}{7}$
8 a. $\frac{\_\_}{20} = \frac{1}{4}$	**8 b.** $\frac{10}{34} = \frac{\_\_}{17}$	**8 c.** $\frac{11}{1} = \frac{\_\_}{3}$
9 a. $\frac{13}{11} = \frac{\_\_}{33}$	**9 b.** $\frac{1}{\_\_} = \frac{32}{32}$	**9 c.** $\frac{13}{3} = \frac{\_\_}{9}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{4}{13} = \frac{8}{\_\_\_}$	**1 b.** $\frac{8}{3} = \frac{\_\_\_}{9}$	**1 c.** $\frac{\_\_\_}{10} = \frac{33}{30}$
2 a. $\frac{\_\_\_}{1} = \frac{36}{12}$	**2 b.** $\frac{5}{30} = \frac{1}{\_\_\_}$	**2 c.** $\frac{5}{4} = \frac{25}{\_\_\_}$
3 a. $\frac{1}{\_\_\_} = \frac{8}{32}$	**3 b.** $\frac{1}{\_\_\_} = \frac{2}{38}$	**3 c.** $\frac{2}{5} = \frac{14}{\_\_\_}$
4 a. $\frac{\_\_\_}{15} = \frac{4}{3}$	**4 b.** $\frac{16}{\_\_\_} = \frac{8}{13}$	**4 c.** $\frac{9}{\_\_\_} = \frac{3}{11}$
5 a. $\frac{1}{5} = \frac{\_\_\_}{30}$	**5 b.** $\frac{\_\_\_}{1} = \frac{33}{11}$	**5 c.** $\frac{28}{\_\_\_} = \frac{7}{10}$
6 a. $\frac{15}{39} = \frac{5}{\_\_\_}$	**6 b.** $\frac{1}{9} = \frac{\_\_\_}{27}$	**6 c.** $\frac{11}{11} = \frac{\_\_\_}{1}$
7 a. $\frac{32}{28} = \frac{8}{\_\_\_}$	**7 b.** $\frac{\_\_\_}{20} = \frac{7}{4}$	**7 c.** $\frac{\_\_\_}{39} = \frac{1}{3}$
8 a. $\frac{9}{\_\_\_} = \frac{27}{15}$	**8 b.** $\frac{2}{3} = \frac{\_\_\_}{27}$	**8 c.** $\frac{36}{32} = \frac{9}{\_\_\_}$
9 a. $\frac{21}{7} = \frac{\_\_\_}{1}$	**9 b.** $\frac{3}{\_\_\_} = \frac{15}{5}$	**9 c.** $\frac{10}{\_\_\_} = \frac{5}{17}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{8}{7} = \frac{\quad}{28}$	**1 b.** $\frac{20}{6} = \frac{10}{\quad}$	**1 c.** $\frac{9}{21} = \frac{\quad}{7}$
2 a. $\frac{3}{\quad} = \frac{39}{13}$	**2 b.** $\frac{1}{4} = \frac{\quad}{16}$	**2 c.** $\frac{\quad}{8} = \frac{12}{32}$
3 a. $\frac{\quad}{35} = \frac{1}{5}$	**3 b.** $\frac{\quad}{5} = \frac{32}{20}$	**3 c.** $\frac{\quad}{24} = \frac{5}{3}$
4 a. $\frac{\quad}{25} = \frac{4}{5}$	**4 b.** $\frac{2}{\quad} = \frac{12}{6}$	**4 c.** $\frac{\quad}{27} = \frac{5}{9}$
5 a. $\frac{8}{\quad} = \frac{16}{22}$	**5 b.** $\frac{36}{\quad} = \frac{9}{1}$	**5 c.** $\frac{4}{26} = \frac{2}{\quad}$
6 a. $\frac{1}{\quad} = \frac{10}{30}$	**6 b.** $\frac{2}{\quad} = \frac{24}{12}$	**6 c.** $\frac{9}{3} = \frac{\quad}{1}$
7 a. $\frac{30}{18} = \frac{\quad}{3}$	**7 b.** $\frac{3}{\quad} = \frac{12}{20}$	**7 c.** $\frac{\quad}{4} = \frac{9}{12}$
8 a. $\frac{\quad}{8} = \frac{5}{2}$	**8 b.** $\frac{18}{39} = \frac{\quad}{13}$	**8 c.** $\frac{\quad}{24} = \frac{7}{6}$
9 a. $\frac{\quad}{15} = \frac{5}{3}$	**9 b.** $\frac{2}{5} = \frac{6}{\quad}$	**9 c.** $\frac{12}{27} = \frac{\quad}{9}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{\quad}{5} = \frac{39}{15}$	**1 b.** $\frac{4}{1} = \frac{\quad}{4}$	**1 c.** $\frac{\quad}{30} = \frac{1}{3}$
2 a. $\frac{\quad}{15} = \frac{1}{1}$	**2 b.** $\frac{9}{\quad} = \frac{27}{3}$	**2 c.** $\frac{2}{\quad} = \frac{14}{7}$
3 a. $\frac{12}{21} = \frac{\quad}{7}$	**3 b.** $\frac{3}{\quad} = \frac{1}{8}$	**3 c.** $\frac{8}{11} = \frac{\quad}{33}$
4 a. $\frac{\quad}{5} = \frac{12}{15}$	**4 b.** $\frac{39}{27} = \frac{\quad}{9}$	**4 c.** $\frac{3}{7} = \frac{15}{\quad}$
5 a. $\frac{\quad}{13} = \frac{3}{39}$	**5 b.** $\frac{\quad}{10} = \frac{38}{20}$	**5 c.** $\frac{2}{\quad} = \frac{8}{4}$
6 a. $\frac{\quad}{5} = \frac{30}{25}$	**6 b.** $\frac{2}{1} = \frac{36}{\quad}$	**6 c.** $\frac{3}{30} = \frac{1}{\quad}$
7 a. $\frac{6}{\quad} = \frac{18}{15}$	**7 b.** $\frac{34}{34} = \frac{1}{\quad}$	**7 c.** $\frac{1}{\quad} = \frac{3}{6}$
8 a. $\frac{2}{3} = \frac{24}{\quad}$	**8 b.** $\frac{28}{20} = \frac{\quad}{5}$	**8 c.** $\frac{5}{3} = \frac{\quad}{21}$
9 a. $\frac{\quad}{13} = \frac{33}{39}$	**9 b.** $\frac{\quad}{39} = \frac{4}{13}$	**9 c.** $\frac{\quad}{1} = \frac{3}{3}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{\quad}{1} = \frac{40}{10}$	**1 b.** $\frac{36}{21} = \frac{12}{\quad}$	**1 c.** $\frac{30}{35} = \frac{6}{\quad}$
2 a. $\frac{1}{\quad} = \frac{5}{25}$	**2 b.** $\frac{5}{4} = \frac{\quad}{32}$	**2 c.** $\frac{2}{1} = \frac{\quad}{16}$
3 a. $\frac{6}{\quad} = \frac{24}{28}$	**3 b.** $\frac{7}{6} = \frac{\quad}{24}$	**3 c.** $\frac{1}{1} = \frac{\quad}{9}$
4 a. $\frac{1}{7} = \frac{3}{\quad}$	**4 b.** $\frac{5}{8} = \frac{20}{\quad}$	**4 c.** $\frac{32}{26} = \frac{16}{\quad}$
5 a. $\frac{1}{8} = \frac{4}{\quad}$	**5 b.** $\frac{\quad}{25} = \frac{6}{5}$	**5 c.** $\frac{34}{26} = \frac{\quad}{13}$
6 a. $\frac{27}{\quad} = \frac{1}{1}$	**6 b.** $\frac{\quad}{5} = \frac{3}{1}$	**6 c.** $\frac{1}{5} = \frac{\quad}{15}$
7 a. $\frac{6}{9} = \frac{\quad}{3}$	**7 b.** $\frac{\quad}{39} = \frac{12}{13}$	**7 c.** $\frac{11}{12} = \frac{33}{\quad}$
8 a. $\frac{\quad}{30} = \frac{8}{15}$	**8 b.** $\frac{\quad}{2} = \frac{18}{12}$	**8 c.** $\frac{32}{30} = \frac{\quad}{15}$
9 a. $\frac{\quad}{27} = \frac{13}{9}$	**9 b.** $\frac{2}{9} = \frac{\quad}{27}$	**9 c.** $\frac{28}{40} = \frac{\quad}{10}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{10}{\quad} = \frac{1}{4}$	**1 b.** $\frac{4}{\quad} = \frac{12}{33}$	**1 c.** $\frac{24}{36} = \frac{\quad}{3}$
2 a. $\frac{2}{\quad} = \frac{4}{14}$	**2 b.** $\frac{7}{10} = \frac{28}{\quad}$	**2 c.** $\frac{1}{\quad} = \frac{39}{39}$
3 a. $\frac{9}{5} = \frac{36}{\quad}$	**3 b.** $\frac{\quad}{18} = \frac{1}{3}$	**3 c.** $\frac{16}{22} = \frac{8}{\quad}$
4 a. $\frac{39}{21} = \frac{13}{\quad}$	**4 b.** $\frac{9}{4} = \frac{36}{\quad}$	**4 c.** $\frac{3}{\quad} = \frac{1}{4}$
5 a. $\frac{1}{10} = \frac{3}{\quad}$	**5 b.** $\frac{24}{\quad} = \frac{3}{4}$	**5 c.** $\frac{10}{\quad} = \frac{2}{1}$
6 a. $\frac{\quad}{13} = \frac{6}{39}$	**6 b.** $\frac{6}{30} = \frac{1}{\quad}$	**6 c.** $\frac{\quad}{1} = \frac{18}{9}$
7 a. $\frac{10}{\quad} = \frac{20}{18}$	**7 b.** $\frac{\quad}{1} = \frac{32}{4}$	**7 c.** $\frac{15}{15} = \frac{\quad}{1}$
8 a. $\frac{\quad}{5} = \frac{8}{40}$	**8 b.** $\frac{4}{28} = \frac{\quad}{7}$	**8 c.** $\frac{\quad}{1} = \frac{2}{2}$
9 a. $\frac{9}{4} = \frac{27}{\quad}$	**9 b.** $\frac{39}{\quad} = \frac{1}{1}$	**9 c.** $\frac{\quad}{4} = \frac{35}{20}$

CHAPTER 5 - FRACTIONS ON A NUMBER LINE & EQUIVALENT FRACTIONS

FRACTIONS WORKSHEET

Find the missing number in these equivalent fractions.

1 a. $\frac{10}{\quad} = \frac{1}{4}$	**1 b.** $\frac{4}{\quad} = \frac{12}{33}$	**1 c.** $\frac{24}{36} = \frac{\quad}{3}$
2 a. $\frac{2}{\quad} = \frac{4}{14}$	**2 b.** $\frac{7}{10} = \frac{28}{\quad}$	**2 c.** $\frac{1}{\quad} = \frac{39}{39}$
3 a. $\frac{9}{5} = \frac{36}{\quad}$	**3 b.** $\frac{\quad}{18} = \frac{1}{3}$	**3 c.** $\frac{16}{22} = \frac{8}{\quad}$
4 a. $\frac{39}{21} = \frac{13}{\quad}$	**4 b.** $\frac{9}{4} = \frac{36}{\quad}$	**4 c.** $\frac{3}{\quad} = \frac{1}{4}$
5 a. $\frac{1}{10} = \frac{3}{\quad}$	**5 b.** $\frac{24}{\quad} = \frac{3}{4}$	**5 c.** $\frac{10}{\quad} = \frac{2}{1}$
6 a. $\frac{\quad}{13} = \frac{6}{39}$	**6 b.** $\frac{6}{30} = \frac{1}{\quad}$	**6 c.** $\frac{\quad}{1} = \frac{18}{9}$
7 a. $\frac{10}{\quad} = \frac{20}{18}$	**7 b.** $\frac{\quad}{1} = \frac{32}{4}$	**7 c.** $\frac{15}{15} = \frac{\quad}{1}$
8 a. $\frac{\quad}{5} = \frac{8}{40}$	**8 b.** $\frac{4}{28} = \frac{\quad}{7}$	**8 c.** $\frac{\quad}{1} = \frac{2}{2}$
9 a. $\frac{9}{4} = \frac{27}{\quad}$	**9 b.** $\frac{39}{\quad} = \frac{1}{1}$	**9 c.** $\frac{\quad}{4} = \frac{35}{20}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

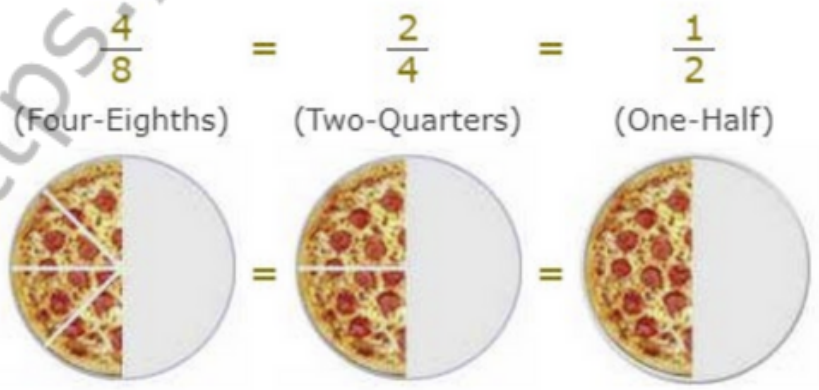
SIMPLIFYING FRACTIONS

To simplify a fraction, divide the top and bottom by the highest number that can divide into both numbers exactly.

$$\frac{\cancel{2}\,1}{\cancel{10}\,5}$$

Simplifying (or reducing) fractions means to make the fraction as simple as possible.

Why say four-eighths ($\frac{4}{8}$) when we really mean half ($\frac{1}{2}$) ?



CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

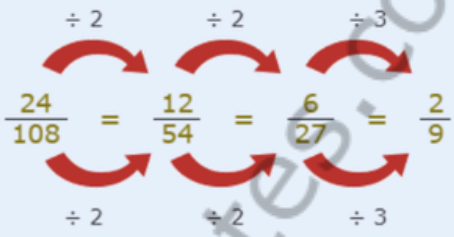
HOW TO SIMPLIFY A FRACTION ?

There are two ways to simplify a fraction:

Method 1

Try to exactly divide (only whole number answers) both the top and bottom of the fraction by 2, 3, 5, 7 ,... etc, until we can't go any further.

Example: Simplify the fraction $\frac{24}{108}$:



That is as far as we can go. The fraction simplifies to $\frac{2}{9}$

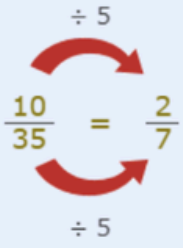
Example: Simplify the fraction $\frac{10}{35}$:

Dividing by **2** doesn't work because **35 can't be exactly divided by 2** (35/2 = 17½)

Likewise we can't divide exactly by **3** (10/3 = $3\frac{1}{3}$ and also 35/3=$11\frac{2}{3}$)

No need to check **4** (we checked 2 already, and 4 is just 2×2).

But **5** does work!



That is as far as we can go. The fraction simplifies to $\frac{2}{7}$

Notice that after checking 2 we didn't need to check 4 (4 is 2×2)?

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

HOW TO SIMPLIFY A FRACTION ?

We also don't need to check 6 when we have checked 2 and 3 (6 is 2x3).
In fact, when checking from smallest to largest we use prime numbers:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, ...

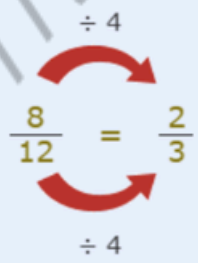
Method 2

Divide both the top and bottom of the fraction by the Greatest Common Factor (you have to work it out first!).

Example: Simplify the fraction $\frac{8}{12}$:

The largest number that goes exactly into both 8 and 12 is 4, so *the Greatest Common Factor is 4*.

Divide both top and bottom by 4:



That is as far as we can go. The fraction simplifies to $\frac{2}{3}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

EQUIVALENT FRACTIONS - PATTERN

Read the pattern and find the missing equivalent fraction in each problem.

1) $\frac{5}{7} = \frac{10}{14} = \frac{15}{21} = \frac{20}{28} = \_\_$

2) $\frac{1}{3} = \_\_ = \frac{5}{15} = \frac{7}{21} = \frac{9}{27}$

3) $\frac{9}{2} = \frac{18}{4} = \frac{27}{6} = \frac{36}{8} = \_\_$

4) $\frac{8}{5} = \frac{16}{10} = \frac{24}{15} = \_\_ = \frac{40}{25}$

5) $\frac{1}{6} = \_\_ = \frac{3}{18} = \frac{4}{24} = \frac{5}{30}$

6) $\frac{2}{3} = \frac{6}{9} = \frac{10}{15} = \_\_ = \frac{18}{27}$

7) $\frac{7}{4} = \frac{14}{8} = \frac{21}{12} = \frac{28}{16} = \_\_$

8) $\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \_\_ = \frac{15}{40}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

EQUIVALENT FRACTIONS - PATTERN

Read the pattern and find the missing equivalent fraction in each problem.

1) $\frac{1}{9} = \frac{2}{18} = \frac{3}{27} = \frac{4}{36} = \_\_$

2) $\frac{7}{3} = \_\_ = \frac{21}{9} = \frac{28}{12} = \frac{35}{15}$

3) $\frac{4}{5} = \frac{12}{15} = \frac{20}{25} = \_\_ = \frac{36}{45}$

4) $\frac{2}{9} = \frac{4}{18} = \frac{6}{27} = \frac{8}{36} = \_\_$

5) $\frac{1}{7} = \frac{2}{14} = \frac{3}{21} = \frac{4}{28} = \_\_$

6) $\frac{8}{3} = \frac{16}{6} = \frac{24}{9} = \_\_ = \frac{40}{15}$

7) $\frac{5}{6} = \_\_ = \frac{15}{18} = \frac{20}{24} = \frac{25}{30}$

8) $\frac{1}{2} = \frac{3}{6} = \frac{5}{10} = \frac{7}{14} = \_\_$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

EQUIVALENT FRACTIONS - PATTERN

Read the pattern and find the missing equivalent fraction in each problem.

1) $\frac{7}{6} = \frac{21}{18} = \frac{35}{30} = \text{—} = \frac{63}{54}$

2) $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20} = \text{—}$

3) $\frac{1}{8} = \text{—} = \frac{3}{24} = \frac{4}{32} = \frac{5}{40}$

4) $\frac{2}{7} = \frac{4}{14} = \frac{6}{21} = \text{—} = \frac{10}{35}$

5) $\frac{9}{4} = \frac{18}{8} = \frac{27}{12} = \frac{36}{16} = \text{—}$

6) $\frac{1}{5} = \text{—} = \frac{5}{25} = \frac{7}{35} = \frac{9}{45}$

7) $\frac{4}{7} = \frac{8}{14} = \frac{12}{21} = \text{—} = \frac{20}{35}$

8) $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20} = \text{—}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

EQUIVALENT FRACTIONS - PATTERN

Read the pattern and find the missing equivalent fraction in each problem.

1) $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20} = \frac{15}{25} = \_\_ = \frac{21}{35} = \_\_$

2) $\frac{1}{6} = \frac{3}{18} = \frac{5}{30} = \_\_ = \frac{9}{54} = \frac{11}{66} = \_\_ = \frac{15}{90}$

3) $\frac{9}{4} = \frac{18}{8} = \_\_ = \frac{36}{16} = \_\_ = \frac{54}{24} = \frac{63}{28} = \frac{72}{32}$

4) $\frac{7}{8} = \frac{14}{16} = \frac{21}{24} = \_\_ = \frac{35}{40} = \_\_ = \frac{49}{56} = \frac{56}{64}$

5) $\frac{2}{3} = \frac{6}{9} = \frac{10}{15} = \frac{14}{21} = \frac{18}{27} = \_\_ = \frac{26}{39} = \_\_$

6) $\frac{1}{5} = \frac{3}{15} = \_\_ = \frac{7}{35} = \_\_ = \frac{11}{55} = \frac{13}{65} = \frac{15}{75}$

7) $\frac{7}{6} = \frac{14}{12} = \frac{21}{18} = \_\_ = \frac{35}{30} = \frac{42}{36} = \_\_ = \frac{56}{48}$

8) $\frac{4}{3} = \frac{8}{6} = \frac{12}{9} = \frac{16}{12} = \frac{20}{15} = \_\_ = \frac{28}{21} = \_\_$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

EQUIVALENT FRACTIONS - PATTERN

Read the pattern and find the missing equivalent fraction in each problem.

1) $\frac{1}{2} = \frac{3}{6} = \_\_ = \frac{7}{14} = \_\_ = \frac{11}{22} = \frac{13}{26} = \frac{15}{30}$

2) $\frac{7}{3} = \frac{14}{6} = \frac{21}{9} = \_\_ = \frac{35}{15} = \_\_ = \frac{49}{21} = \frac{56}{24}$

3) $\frac{5}{8} = \frac{10}{16} = \frac{15}{24} = \frac{20}{32} = \_\_ = \frac{30}{48} = \_\_ = \frac{40}{64}$

4) $\frac{9}{2} = \frac{18}{4} = \frac{27}{6} = \frac{36}{8} = \frac{45}{10} = \_\_ = \frac{63}{14} = \_\_$

5) $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16} = \_\_ = \_\_ = \frac{7}{28} = \frac{8}{32}$

6) $\frac{6}{5} = \frac{12}{10} = \frac{18}{15} = \_\_ = \frac{30}{25} = \frac{36}{30} = \_\_ = \frac{48}{40}$

7) $\frac{3}{4} = \frac{9}{12} = \_\_ = \frac{21}{28} = \_\_ = \frac{33}{44} = \frac{39}{52} = \frac{45}{60}$

8) $\frac{2}{7} = \frac{4}{14} = \frac{6}{21} = \_\_ = \frac{10}{35} = \_\_ = \frac{14}{49} = \frac{16}{56}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

EQUIVALENT FRACTIONS - PATTERN

Read the pattern and find the missing equivalent fraction in each problem.

1) $\frac{4}{9} = \frac{8}{18} = \frac{12}{27} = \frac{16}{36} = \_\_ = \frac{24}{54} = \_\_ = \frac{32}{72}$

2) $\frac{2}{5} = \frac{6}{15} = \frac{10}{25} = \_\_ = \frac{18}{45} = \_\_ = \frac{26}{65} = \frac{30}{75}$

3) $\frac{1}{8} = \frac{2}{16} = \frac{3}{24} = \_\_ = \frac{5}{40} = \frac{6}{48} = \frac{7}{56} = \_\_$

4) $\frac{7}{4} = \frac{14}{8} = \frac{21}{12} = \frac{28}{16} = \_\_ = \frac{42}{24} = \_\_ = \frac{56}{32}$

5) $\frac{5}{9} = \frac{10}{18} = \_\_ = \_\_ = \frac{25}{45} = \frac{30}{54} = \frac{35}{63} = \frac{40}{72}$

6) $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \_\_ = \frac{5}{15} = \_\_ = \frac{7}{21} = \frac{8}{24}$

7) $\frac{6}{7} = \_\_ = \_\_ = \frac{24}{28} = \frac{30}{35} = \frac{36}{42} = \frac{42}{49} = \frac{48}{56}$

8) $\frac{9}{8} = \frac{18}{16} = \frac{27}{24} = \frac{36}{32} = \_\_ = \frac{54}{48} = \frac{63}{56} = \_\_$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

PATTERNS OF EQUIVALENT FRACTIONS

#1

Fill in the missing number

$\frac{1}{10} = \frac{\square}{20} = \frac{4}{40} = \frac{8}{80} = \frac{16}{160}$

#2

Fill in the missing number

$\frac{1}{5} = \frac{2}{\square} = \frac{4}{20} = \frac{8}{40} = \frac{16}{80}$

#3

Fill in the missing number

$\frac{1}{9} = \frac{2}{18} = \frac{4}{\square} = \frac{8}{72} = \frac{16}{144}$

#4

Fill in the missing number

$\frac{1}{10} = \frac{\square}{20} = \frac{4}{40} = \frac{8}{80} = \frac{16}{160}$

#5

Fill in the missing number

$\frac{1}{\square} = \frac{2}{10} = \frac{4}{20} = \frac{8}{40} = \frac{16}{80}$

#6

Fill in the missing number

$\frac{1}{6} = \frac{2}{\square} = \frac{4}{24} = \frac{8}{48} = \frac{16}{96}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

PATTERNS OF EQUIVALENT FRACTIONS

#7

Fill in the missing number

$\frac{1}{\square} = \frac{2}{6} = \frac{4}{12} = \frac{8}{24} = \frac{16}{48}$

#8

Fill in the missing number

$\frac{1}{7} = \frac{2}{\square} = \frac{4}{28} = \frac{8}{56} = \frac{16}{112}$

#9

Fill in the missing number

$\frac{1}{?} = \frac{2}{12} = \frac{4}{24} = \frac{8}{48} = \frac{16}{96}$

- ○ 3
- ○ 4
- ○ 6
- ○ 5

#10

Fill in the missing number

$\frac{1}{7} = \frac{2}{14} = \frac{4}{28} = \frac{?}{56} = \frac{16}{112}$

- ○ 9
- ○ 8
- ○ 11
- ○ 6

#11

Fill in the missing number

$\frac{1}{7} = \frac{2}{14} = \frac{?}{28} = \frac{8}{56} = \frac{16}{112}$

- ○ 6
- ○ 7
- ○ 4
- ○ 3

#12

Fill in the missing number

$\frac{1}{10} = \frac{2}{20} = \frac{4}{40} = \frac{8}{80} = \frac{16}{?}$

- ○ 183
- ○ 168
- ○ 171
- ○ 160

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

PATTERNS OF EQUIVALENT FRACTIONS

#13

Fill in the missing number

$\frac{1}{4} = \frac{2}{8} = \frac{4}{16} = \frac{?}{32} = \frac{16}{64}$

- ○ 8
- ○ 5
- ○ 7
- ○ 10

#14

Fill in the missing number

$\frac{1}{3} = \frac{2}{6} = \frac{4}{12} = \frac{8}{?} = \frac{16}{48}$

- ○ 19
- ○ 18
- ○ 29
- ○ 24

#15

Fill in the missing number

$\frac{1}{8} = \frac{2}{16} = \frac{4}{32} = \frac{8}{64} = \frac{?}{128}$

- ○ 20
- ○ 16
- ○ 18
- ○ 15

#16

Fill in the missing number

$\frac{1}{8} = \frac{2}{?} = \frac{4}{32} = \frac{8}{64} = \frac{16}{128}$

- ○ 19
- ○ 16
- ○ 20
- ○ 18

#17

Fill in the missing number

$\frac{1}{8} = \frac{2}{16} = \frac{4}{32} = \frac{8}{?} = \frac{16}{128}$

- ○ 64
- ○ 58
- ○ 79
- ○ 52

#18

Fill in the missing number

$\frac{1}{2} = \frac{2}{4} = \frac{?}{8} = \frac{8}{16} = \frac{16}{32}$

- ○ 1
- ○ 4
- ○ 5
- ○ 3

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

PATTERNS OF EQUIVALENT FRACTIONS

#19

Fill in the missing number

$\frac{1}{5} = \frac{2}{10} = \frac{?}{20} = \frac{8}{40} = \frac{16}{80}$

- ○ 4
- ○ 3
- ○ 1
- ○ 6

#20

Fill in the missing number

$\frac{1}{8} = \frac{2}{16} = \frac{4}{32} = \frac{8}{64} = \frac{?}{128}$

- ○ 14
- ○ 12
- ○ 16
- ○ 15

#21

Fill in the missing number

$\frac{1}{4} = \frac{2}{8} = \frac{4}{16} = \frac{8}{32} = \frac{16}{?}$

- ○ 64
- ○ 73
- ○ 69
- ○ 57

#22

Fill in the missing number

$\frac{1}{?} = \frac{2}{4} = \frac{4}{8} = \frac{8}{16} = \frac{16}{32}$

- ○ 1
- ○ 3
- ○ 0
- ○ 2

#23

Fill in the missing number

$\frac{1}{?} = \frac{2}{20} = \frac{4}{40} = \frac{8}{80} = \frac{16}{160}$

- ○ 13
- ○ 10
- ○ 8
- ○ 11

#24

Fill in the missing number

$\frac{1}{?} = \frac{2}{20} = \frac{4}{40} = \frac{8}{80} = \frac{16}{160}$

- ○ 12
- ○ 11
- ○ 7
- ○ 10

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{3}{63}$	**1 b.**	$\frac{18}{72}$	**1 c.**	$\frac{26}{72}$
2 a.	$\frac{26}{60}$	**2 b.**	$\frac{24}{96}$	**2 c.**	$\frac{36}{57}$
3 a.	$\frac{22}{77}$	**3 b.**	$\frac{12}{24}$	**3 c.**	$\frac{4}{84}$
4 a.	$\frac{8}{12}$	**4 b.**	$\frac{16}{24}$	**4 c.**	$\frac{14}{84}$
5 a.	$\frac{40}{90}$	**5 b.**	$\frac{25}{55}$	**5 c.**	$\frac{3}{57}$
6 a.	$\frac{9}{12}$	**6 b.**	$\frac{2}{30}$	**6 c.**	$\frac{21}{81}$
7 a.	$\frac{7}{21}$	**7 b.**	$\frac{25}{50}$	**7 c.**	$\frac{28}{35}$
8 a.	$\frac{3}{87}$	**8 b.**	$\frac{24}{39}$	**8 c.**	$\frac{30}{98}$
9 a.	$\frac{16}{66}$	**9 b.**	$\frac{32}{32}$	**9 c.**	$\frac{13}{52}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a. $\frac{36}{46}$	**1 b.** $\frac{12}{87}$	**1 c.** $\frac{18}{84}$
2 a. $\frac{20}{28}$	**2 b.** $\frac{15}{60}$	**2 c.** $\frac{22}{33}$
3 a. $\frac{9}{18}$	**3 b.** $\frac{22}{54}$	**3 c.** $\frac{40}{64}$
4 a. $\frac{5}{85}$	**4 b.** $\frac{18}{42}$	**4 c.** $\frac{34}{34}$
5 a. $\frac{12}{39}$	**5 b.** $\frac{33}{45}$	**5 c.** $\frac{21}{81}$
6 a. $\frac{27}{33}$	**6 b.** $\frac{2}{96}$	**6 c.** $\frac{26}{96}$
7 a. $\frac{28}{82}$	**7 b.** $\frac{13}{78}$	**7 c.** $\frac{6}{21}$
8 a. $\frac{39}{78}$	**8 b.** $\frac{20}{45}$	**8 c.** $\frac{18}{93}$
9 a. $\frac{2}{16}$	**9 b.** $\frac{16}{24}$	**9 c.** $\frac{27}{45}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a. $\frac{21}{36}$	**1 b.** $\frac{25}{100}$	**1 c.** $\frac{25}{35}$
2 a. $\frac{15}{60}$	**2 b.** $\frac{3}{6}$	**2 c.** $\frac{4}{92}$
3 a. $\frac{35}{65}$	**3 b.** $\frac{15}{33}$	**3 c.** $\frac{34}{92}$
4 a. $\frac{40}{56}$	**4 b.** $\frac{12}{99}$	**4 c.** $\frac{6}{32}$
5 a. $\frac{21}{87}$	**5 b.** $\frac{12}{33}$	**5 c.** $\frac{18}{34}$
6 a. $\frac{30}{93}$	**6 b.** $\frac{3}{21}$	**6 c.** $\frac{9}{24}$
7 a. $\frac{36}{39}$	**7 b.** $\frac{2}{36}$	**7 c.** $\frac{32}{80}$
8 a. $\frac{36}{96}$	**8 b.** $\frac{20}{76}$	**8 c.** $\frac{28}{96}$
9 a. $\frac{12}{15}$	**9 b.** $\frac{30}{72}$	**9 c.** $\frac{4}{20}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{8}{36}$	**1 b.**	$\frac{18}{30}$	**1 c.**	$\frac{30}{87}$
2 a.	$\frac{3}{36}$	**2 b.**	$\frac{28}{30}$	**2 c.**	$\frac{25}{40}$
3 a.	$\frac{20}{96}$	**3 b.**	$\frac{2}{10}$	**3 c.**	$\frac{16}{84}$
4 a.	$\frac{39}{91}$	**4 b.**	$\frac{6}{24}$	**4 c.**	$\frac{6}{36}$
5 a.	$\frac{29}{29}$	**5 b.**	$\frac{15}{100}$	**5 c.**	$\frac{12}{51}$
6 a.	$\frac{12}{100}$	**6 b.**	$\frac{3}{63}$	**6 c.**	$\frac{28}{96}$
7 a.	$\frac{16}{16}$	**7 b.**	$\frac{24}{33}$	**7 c.**	$\frac{16}{88}$
8 a.	$\frac{27}{30}$	**8 b.**	$\frac{18}{27}$	**8 c.**	$\frac{8}{26}$
9 a.	$\frac{21}{51}$	**9 b.**	$\frac{24}{87}$	**9 c.**	$\frac{14}{80}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{8}{12}$	**1 b.**	$\frac{28}{28}$	**1 c.**	$\frac{12}{39}$
2 a.	$\frac{21}{27}$	**2 b.**	$\frac{20}{96}$	**2 c.**	$\frac{10}{10}$
3 a.	$\frac{35}{95}$	**3 b.**	$\frac{5}{30}$	**3 c.**	$\frac{39}{81}$
4 a.	$\frac{32}{52}$	**4 b.**	$\frac{3}{30}$	**4 c.**	$\frac{28}{42}$
5 a.	$\frac{37}{37}$	**5 b.**	$\frac{18}{58}$	**5 c.**	$\frac{34}{98}$
6 a.	$\frac{39}{63}$	**6 b.**	$\frac{3}{51}$	**6 c.**	$\frac{8}{62}$
7 a.	$\frac{8}{26}$	**7 b.**	$\frac{21}{60}$	**7 c.**	$\frac{28}{38}$
8 a.	$\frac{30}{65}$	**8 b.**	$\frac{22}{78}$	**8 c.**	$\frac{15}{60}$
9 a.	$\frac{5}{75}$	**9 b.**	$\frac{33}{36}$	**9 c.**	$\frac{6}{9}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{12}{12}$	**1 b.** $\frac{34}{36}$	**1 c.** $\frac{18}{24}$
2 a.	$\frac{33}{55}$	**2 b.** $\frac{18}{44}$	**2 c.** $\frac{13}{26}$
3 a.	$\frac{12}{54}$	**3 b.** $\frac{30}{40}$	**3 c.** $\frac{15}{85}$
4 a.	$\frac{24}{36}$	**4 b.** $\frac{5}{35}$	**4 c.** $\frac{21}{35}$
5 a.	$\frac{33}{75}$	**5 b.** $\frac{24}{51}$	**5 c.** $\frac{19}{38}$
6 a.	$\frac{28}{40}$	**6 b.** $\frac{24}{76}$	**6 c.** $\frac{14}{74}$
7 a.	$\frac{12}{21}$	**7 b.** $\frac{5}{25}$	**7 c.** $\frac{24}{28}$
8 a.	$\frac{36}{84}$	**8 b.** $\frac{24}{60}$	**8 c.** $\frac{33}{72}$
9 a.	$\frac{6}{20}$	**9 b.** $\frac{35}{100}$	**9 c.** $\frac{26}{48}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{12}{46}$	**1 b.**	$\frac{24}{90}$	**1 c.**	$\frac{7}{21}$
2 a.	$\frac{2}{4}$	**2 b.**	$\frac{9}{69}$	**2 c.**	$\frac{7}{77}$
3 a.	$\frac{3}{3}$	**3 b.**	$\frac{30}{84}$	**3 c.**	$\frac{5}{75}$
4 a.	$\frac{20}{45}$	**4 b.**	$\frac{30}{35}$	**4 c.**	$\frac{24}{60}$
5 a.	$\frac{25}{80}$	**5 b.**	$\frac{5}{95}$	**5 c.**	$\frac{35}{80}$
6 a.	$\frac{30}{33}$	**6 b.**	$\frac{35}{60}$	**6 c.**	$\frac{5}{85}$
7 a.	$\frac{4}{34}$	**7 b.**	$\frac{21}{30}$	**7 c.**	$\frac{12}{27}$
8 a.	$\frac{16}{44}$	**8 b.**	$\frac{10}{85}$	**8 c.**	$\frac{25}{30}$
9 a.	$\frac{23}{23}$	**9 b.**	$\frac{33}{42}$	**9 c.**	$\frac{9}{51}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{8}{62}$	**1 b.**	$\frac{24}{32}$	**1 c.**	$\frac{15}{33}$
2 a.	$\frac{34}{92}$	**2 b.**	$\frac{21}{36}$	**2 c.**	$\frac{9}{39}$
3 a.	$\frac{28}{48}$	**3 b.**	$\frac{28}{32}$	**3 c.**	$\frac{5}{55}$
4 a.	$\frac{18}{38}$	**4 b.**	$\frac{35}{42}$	**4 c.**	$\frac{3}{63}$
5 a.	$\frac{5}{10}$	**5 b.**	$\frac{24}{64}$	**5 c.**	$\frac{6}{33}$
6 a.	$\frac{20}{95}$	**6 b.**	$\frac{34}{98}$	**6 c.**	$\frac{8}{72}$
7 a.	$\frac{39}{57}$	**7 b.**	$\frac{12}{96}$	**7 c.**	$\frac{15}{36}$
8 a.	$\frac{25}{25}$	**8 b.**	$\frac{20}{28}$	**8 c.**	$\frac{2}{64}$
9 a.	$\frac{14}{98}$	**9 b.**	$\frac{20}{32}$	**9 c.**	$\frac{14}{72}$

CHAPTER 6 - EQUIVALENT FRACTIONS & SIMPLIFYING FRACTIONS

FRACTIONS WORKSHEET

Simplify the following fractions.

1 a.	$\frac{6}{12}$	**1 b.**	$\frac{34}{58}$	**1 c.**	$\frac{24}{39}$
2 a.	$\frac{14}{54}$	**2 b.**	$\frac{15}{70}$	**2 c.**	$\frac{7}{14}$
3 a.	$\frac{12}{18}$	**3 b.**	$\frac{12}{60}$	**3 c.**	$\frac{20}{25}$
4 a.	$\frac{25}{90}$	**4 b.**	$\frac{30}{45}$	**4 c.**	$\frac{34}{51}$
5 a.	$\frac{10}{40}$	**5 b.**	$\frac{18}{96}$	**5 c.**	$\frac{4}{4}$
6 a.	$\frac{4}{44}$	**6 b.**	$\frac{34}{34}$	**6 c.**	$\frac{21}{33}$
7 a.	$\frac{14}{22}$	**7 b.**	$\frac{18}{33}$	**7 c.**	$\frac{22}{33}$
8 a.	$\frac{24}{96}$	**8 b.**	$\frac{18}{42}$	**8 c.**	$\frac{15}{18}$
9 a.	$\frac{20}{24}$	**9 b.**	$\frac{15}{21}$	**9 c.**	$\frac{36}{40}$

CHAPTER 7 -
ADDING FRACTIONS

CHAPTER 7 - ADDING FRACTIONS

ADDING FRACTIONS – SAME DENOMINATOR

A fraction like $\frac{3}{4}$ says we have 3 out of the 4 parts the whole is divided into.

$\frac{3}{4}$ ← *Numerator*

$\frac{3}{4}$ ← *Denominator*

To add fractions there are Three Simple Steps:

- **Step 1:** Make sure the bottom numbers (the denominators) are the same
- **Step 2:** Add the top numbers (the numerators), put that answer over the denominator
- **Step 3:** Simplify the fraction (if needed)

Example:

$$\frac{1}{4} + \frac{1}{4}$$

- **Step 1:** The bottom numbers (the denominators) are already the same. Go straight to step 2.
- **Step 2:** Add the top numbers and put the answer over the same denominator:

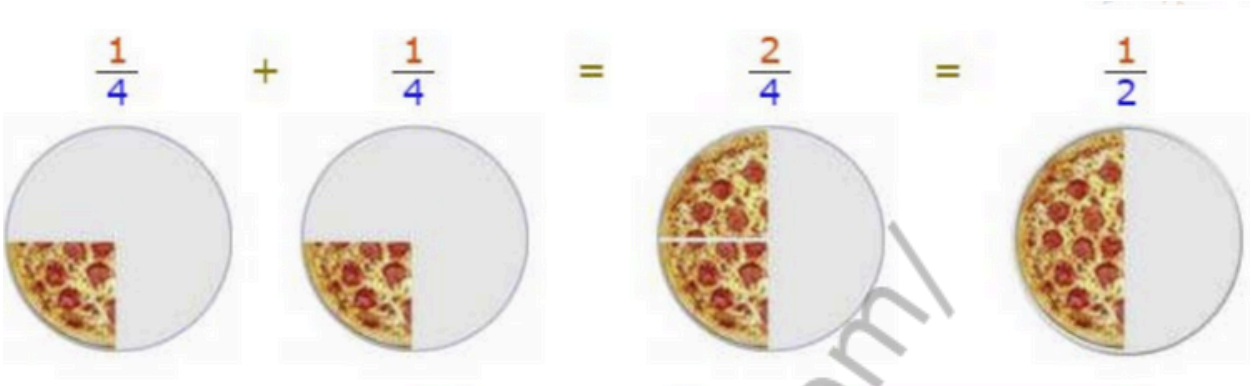
$$\frac{1}{4} + \frac{1}{4} = \frac{1+1}{4} = \frac{2}{4}$$

- **Step 3:** Simplify the fraction:

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

CHAPTER 7 - ADDING FRACTIONS

In picture form it looks like this:



... and do you see how $\frac{2}{4}$ is simpler as $\frac{1}{2}$? (see Equivalent Fractions .)

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

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

2. $\frac{13}{4} + \frac{3}{4} =$

3. $\frac{14}{8} + \frac{2}{8} =$

4. $\frac{1}{2} + \frac{15}{2} =$

5. $\frac{14}{24} + \frac{10}{24} =$

6. $\frac{4}{9} + \frac{5}{9} =$

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

8. $\frac{5}{2} + \frac{15}{2} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{1}{4} + \frac{3}{4} =$	5. $\frac{14}{24} + \frac{10}{24} =$
2. $\frac{13}{4} + \frac{3}{4} =$	6. $\frac{4}{9} + \frac{5}{9} =$
3. $\frac{14}{8} + \frac{2}{8} =$	7. $\frac{1}{2} + \frac{1}{2} =$
4. $\frac{1}{2} + \frac{15}{2} =$	8. $\frac{5}{2} + \frac{15}{2} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{13}{28} + \frac{15}{28} =$	13. $\frac{8}{5} + \frac{7}{5} =$
10. $\frac{11}{5} + \frac{14}{5} =$	14. $\frac{10}{24} + \frac{14}{24} =$
11. $\frac{7}{4} + \frac{13}{4} =$	15. $\frac{9}{2} + \frac{7}{2} =$
12. $\frac{9}{8} + \frac{15}{8} =$	16. $\frac{6}{20} + \frac{14}{20} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{7}{3} + \frac{2}{3} =$	5. $\frac{5}{10} + \frac{15}{10} =$
2. $\frac{15}{2} + \frac{11}{2} =$	6. $\frac{15}{10} + \frac{5}{10} =$
3. $\frac{9}{11} + \frac{13}{11} =$	7. $\frac{1}{6} + \frac{11}{6} =$
4. $\frac{11}{5} + \frac{14}{5} =$	8. $\frac{12}{24} + \frac{12}{24} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{3}{2} + \frac{9}{2} =$	13. $\frac{10}{8} + \frac{6}{8} =$
10. $\frac{5}{6} + \frac{1}{6} =$	14. $\frac{2}{5} + \frac{3}{5} =$
11. $\frac{9}{12} + \frac{15}{12} =$	15. $\frac{5}{8} + \frac{3}{8} =$
12. $\frac{13}{3} + \frac{2}{3} =$	16. $\frac{7}{17} + \frac{10}{17} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{7}{4} + \frac{5}{4} =$	5. $\frac{4}{5} + \frac{6}{5} =$
2. $\frac{13}{3} + \frac{5}{3} =$	6. $\frac{4}{6} + \frac{2}{6} =$
3. $\frac{10}{9} + \frac{8}{9} =$	7. $\frac{14}{29} + \frac{15}{29} =$
4. $\frac{10}{25} + \frac{15}{25} =$	8. $\frac{3}{4} + \frac{13}{4} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{15}{23} + \frac{8}{23} =$	13. $\frac{10}{24} + \frac{14}{24} =$
10. $\frac{2}{4} + \frac{14}{4} =$	14. $\frac{11}{18} + \frac{7}{18} =$
11. $\frac{4}{14} + \frac{10}{14} =$	15. $\frac{5}{17} + \frac{12}{17} =$
12. $\frac{7}{2} + \frac{9}{2} =$	16. $\frac{5}{8} + \frac{11}{8} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{6}{11} + \frac{10}{22} =$	5. $\frac{2}{6} + \frac{2}{3} =$
2. $\frac{11}{2} + \frac{2}{4} =$	6. $\frac{9}{5} + \frac{12}{10} =$
3. $\frac{5}{2} + \frac{3}{2} =$	7. $\frac{14}{8} + \frac{7}{28} =$
4. $\frac{10}{8} + \frac{6}{8} =$	8. $\frac{15}{9} + \frac{12}{9} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{8}{16} + \frac{10}{4} =$	13. $\frac{9}{8} + \frac{7}{8} =$
10. $\frac{10}{15} + \frac{12}{9} =$	14. $\frac{6}{10} + \frac{14}{10} =$
11. $\frac{4}{28} + \frac{6}{7} =$	15. $\frac{7}{2} + \frac{7}{14} =$
12. $\frac{12}{9} + \frac{5}{3} =$	16. $\frac{9}{18} + \frac{1}{2} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{5}{10} + \frac{12}{24} =$	5. $\frac{11}{5} + \frac{9}{5} =$
2. $\frac{11}{7} + \frac{13}{27} =$	6. $\frac{7}{5} + \frac{15}{25} =$
3. $\frac{13}{9} + \frac{14}{9} =$	7. $\frac{14}{4} + \frac{7}{2} =$
4. $\frac{14}{12} + \frac{7}{6} =$	8. $\frac{14}{21} + \frac{10}{30} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{11}{3} + \frac{5}{15} =$	13. $\frac{12}{9} + \frac{10}{15} =$
10. $\frac{4}{16} + \frac{11}{4} =$	14. $\frac{14}{8} + \frac{3}{12} =$
11. $\frac{5}{7} + \frac{6}{21} =$	15. $\frac{12}{24} + \frac{1}{2} =$
12. $\frac{6}{4} + \frac{5}{2} =$	16. $\frac{13}{26} + \frac{12}{8} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{12}{18} + \frac{5}{15} =$	5. $\frac{14}{28} + \frac{15}{6} =$
2. $\frac{9}{6} + \frac{12}{24} =$	6. $\frac{14}{4} + \frac{1}{2} =$
3. $\frac{12}{8} + \frac{12}{24} =$	7. $\frac{12}{15} + \frac{5}{25} =$
4. $\frac{9}{2} + \frac{13}{26} =$	8. $\frac{4}{18} + \frac{7}{9} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{11}{5} + \frac{12}{15} =$	13. $\frac{4}{8} + \frac{15}{30} =$
10. $\frac{15}{6} + \frac{5}{2} =$	14. $\frac{2}{10} + \frac{4}{5} =$
11. $\frac{10}{18} + \frac{12}{27} =$	15. $\frac{10}{24} + \frac{7}{12} =$
12. $\frac{6}{18} + \frac{14}{3} =$	16. $\frac{13}{2} + \frac{5}{2} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{39}{4} + \frac{3}{5} =$	5. $\frac{27}{2} + \frac{33}{6} =$
2. $\frac{44}{6} + \frac{35}{6} =$	6. $\frac{3}{12} + \frac{46}{5} =$
3. $\frac{22}{9} + \frac{37}{8} =$	7. $\frac{44}{6} + \frac{4}{6} =$
4. $\frac{41}{12} + \frac{22}{10} =$	8. $\frac{33}{6} + \frac{7}{2} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{4}{10} + \frac{6}{9} =$	13. $\frac{17}{12} + \frac{34}{4} =$
10. $\frac{35}{4} + \frac{27}{9} =$	14. $\frac{36}{11} + \frac{21}{5} =$
11. $\frac{44}{12} + \frac{21}{8} =$	15. $\frac{34}{2} + \frac{28}{5} =$
12. $\frac{30}{7} + \frac{35}{9} =$	16. $\frac{50}{11} + \frac{39}{2} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{26}{11} + \frac{37}{4} =$	5. $\frac{36}{11} + \frac{22}{6} =$
2. $\frac{48}{5} + \frac{6}{10} =$	6. $\frac{21}{8} + \frac{5}{9} =$
3. $\frac{10}{3} + \frac{13}{4} =$	7. $\frac{27}{10} + \frac{21}{5} =$
4. $\frac{8}{12} + \frac{41}{2} =$	8. $\frac{30}{8} + \frac{2}{3} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{23}{2} + \frac{45}{2} =$	13. $\frac{17}{3} + \frac{41}{7} =$
10. $\frac{50}{12} + \frac{34}{4} =$	14. $\frac{9}{8} + \frac{23}{9} =$
11. $\frac{1}{9} + \frac{50}{6} =$	15. $\frac{25}{7} + \frac{33}{7} =$
12. $\frac{24}{7} + \frac{39}{2} =$	16. $\frac{9}{10} + \frac{16}{5} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{37}{8} + \frac{18}{8} =$	5. $\frac{1}{4} + \frac{38}{10} =$
2. $\frac{40}{11} + \frac{1}{3} =$	6. $\frac{37}{4} + \frac{21}{7} =$
3. $\frac{7}{12} + \frac{11}{9} =$	7. $\frac{50}{8} + \frac{7}{2} =$
4. $\frac{9}{11} + \frac{41}{4} =$	8. $\frac{10}{12} + \frac{19}{6} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{15}{11} + \frac{39}{10} =$	5. $\frac{11}{12} + \frac{29}{8} =$
2. $\frac{29}{4} + \frac{19}{6} =$	6. $\frac{28}{8} + \frac{50}{3} =$
3. $\frac{47}{10} + \frac{23}{10} =$	7. $\frac{21}{4} + \frac{31}{5} =$
4. $\frac{35}{12} + \frac{11}{4} =$	8. $\frac{43}{4} + \frac{3}{7} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{14}{4} + \frac{23}{8} =$	5. $\frac{49}{12} + \frac{15}{10} =$
2. $\frac{3}{11} + \frac{13}{3} =$	6. $\frac{19}{8} + \frac{49}{2} =$
3. $\frac{1}{6} + \frac{49}{9} =$	7. $\frac{26}{3} + \frac{38}{6} =$
4. $\frac{36}{8} + \frac{4}{9} =$	8. $\frac{6}{7} + \frac{20}{7} =$

CHAPTER 7 - ADDING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{16}{10} + \frac{1}{5} =$	13. $\frac{27}{11} + \frac{23}{9} =$
10. $\frac{2}{10} + \frac{36}{10} =$	14. $\frac{14}{8} + \frac{7}{8} =$
11. $\frac{8}{12} + \frac{37}{4} =$	15. $\frac{25}{2} + \frac{49}{6} =$
12. $\frac{47}{8} + \frac{11}{9} =$	16. $\frac{9}{6} + \frac{7}{4} =$

CHAPTER 8 -
SUBTRACTING FRACTIONS

CHAPTER 8 - SUBTRACTING FRACTIONS

SUBTRACTING FRACTIONS – SAME DENOMINATOR

There are 3 simple steps to subtract fractions

- **Step 1:** Make sure the bottom numbers (the denominators) are the same
- **Step 2:** Subtract the top numbers (the numerators). Put the answer over the same denominator.
- **Step 3:** Simplify the fraction (if needed).

Example 1:

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

Step 1. The bottom numbers are already the same. Go straight to step 2.

Step 2. Subtract the top numbers and put the answer over the same denominator:

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

Step 3. Simplify the fraction:

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

(If you are unsure of the last step see Equivalent Fractions.)

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{14}{6} - \frac{8}{6} =$	5. $\frac{11}{2} - \frac{11}{2} =$
2. $\frac{3}{25} - \frac{3}{25} =$	6. $\frac{13}{3} - \frac{4}{3} =$
3. $\frac{10}{3} - \frac{7}{3} =$	7. $\frac{1}{2} - \frac{1}{2} =$
4. $\frac{14}{5} - \frac{9}{5} =$	8. $\frac{8}{12} - \frac{8}{12} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{6}{25} - \frac{6}{25} =$	13. $\frac{13}{8} - \frac{13}{8} =$
10. $\frac{7}{12} - \frac{7}{12} =$	14. $\frac{13}{18} - \frac{13}{18} =$
11. $\frac{13}{2} - \frac{5}{2} =$	15. $\frac{13}{23} - \frac{13}{23} =$
12. $\frac{13}{4} - \frac{1}{4} =$	16. $\frac{15}{17} - \frac{15}{17} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{12}{9} - \frac{12}{9} =$	5. $\frac{2}{4} - \frac{2}{4} =$
2. $\frac{19}{11} - \frac{8}{11} =$	6. $\frac{42}{4} - \frac{30}{4} =$
3. $\frac{31}{2} - \frac{9}{2} =$	7. $\frac{16}{3} - \frac{10}{3} =$
4. $\frac{27}{8} - \frac{3}{8} =$	8. $\frac{50}{11} - \frac{50}{11} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{29}{7} - \frac{1}{7} =$	13. $\frac{34}{6} - \frac{28}{6} =$
10. $\frac{45}{2} - \frac{35}{2} =$	14. $\frac{38}{11} - \frac{16}{11} =$
11. $\frac{49}{2} - \frac{45}{2} =$	15. $\frac{35}{6} - \frac{23}{6} =$
12. $\frac{38}{12} - \frac{26}{12} =$	16. $\frac{47}{2} - \frac{3}{2} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{12}{5} - \frac{2}{5} =$	5. $\frac{39}{5} - \frac{29}{5} =$
2. $\frac{23}{7} - \frac{9}{7} =$	6. $\frac{50}{11} - \frac{39}{11} =$
3. $\frac{13}{4} - \frac{9}{4} =$	7. $\frac{34}{9} - \frac{25}{9} =$
4. $\frac{21}{4} - \frac{17}{4} =$	8. $\frac{17}{3} - \frac{14}{3} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{50}{3} - \frac{32}{3} =$	13. $\frac{46}{8} - \frac{22}{8} =$
10. $\frac{47}{6} - \frac{35}{6} =$	14. $\frac{20}{3} - \frac{20}{3} =$
11. $\frac{48}{7} - \frac{48}{7} =$	15. $\frac{24}{5} - \frac{14}{5} =$
12. $\frac{23}{5} - \frac{3}{5} =$	16. $\frac{38}{10} - \frac{8}{10} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{4}{12} - \frac{1}{3} =$	5. $\frac{15}{2} - \frac{7}{14} =$
2. $\frac{3}{25} - \frac{3}{25} =$	6. $\frac{14}{10} - \frac{14}{10} =$
3. $\frac{4}{20} - \frac{3}{15} =$	7. $\frac{10}{3} - \frac{4}{12} =$
4. $\frac{7}{27} - \frac{7}{27} =$	8. $\frac{1}{6} - \frac{1}{21} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{15}{10} - \frac{7}{14} =$	13. $\frac{6}{15} - \frac{6}{15} =$
10. $\frac{13}{2} - \frac{3}{10} =$	14. $\frac{2}{29} - \frac{2}{29} =$
11. $\frac{5}{20} - \frac{3}{12} =$	15. $\frac{12}{10} - \frac{4}{20} =$
12. $\frac{7}{18} - \frac{7}{18} =$	16. $\frac{6}{12} - \frac{14}{28} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{12}{18} - \frac{12}{18} =$	5. $\frac{2}{6} - \frac{9}{27} =$
2. $\frac{4}{24} - \frac{1}{6} =$	6. $\frac{11}{6} - \frac{5}{15} =$
3. $\frac{14}{13} - \frac{2}{26} =$	7. $\frac{3}{21} - \frac{1}{7} =$
4. $\frac{4}{22} - \frac{4}{22} =$	8. $\frac{6}{5} - \frac{6}{5} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{14}{21} - \frac{10}{15} =$	13. $\frac{9}{2} - \frac{13}{26} =$
10. $\frac{11}{7} - \frac{8}{14} =$	14. $\frac{7}{19} - \frac{7}{19} =$
11. $\frac{10}{24} - \frac{2}{11} =$	15. $\frac{9}{6} - \frac{11}{22} =$
12. $\frac{5}{15} - \frac{8}{24} =$	16. $\frac{10}{30} - \frac{6}{18} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{14}{28} - \frac{10}{20} =$	5. $\frac{3}{24} - \frac{2}{16} =$
2. $\frac{3}{15} - \frac{4}{20} =$	6. $\frac{7}{5} - \frac{10}{25} =$
3. $\frac{4}{8} - \frac{12}{24} =$	7. $\frac{11}{8} - \frac{11}{8} =$
4. $\frac{8}{10} - \frac{8}{10} =$	8. $\frac{11}{2} - \frac{5}{10} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{1}{3} - \frac{9}{27} =$	13. $\frac{11}{6} - \frac{15}{18} =$
10. $\frac{9}{27} - \frac{6}{18} =$	14. $\frac{9}{18} - \frac{11}{22} =$
11. $\frac{4}{9} - \frac{4}{9} =$	15. $\frac{15}{24} - \frac{13}{12} =$
12. $\frac{13}{25} - \frac{13}{25} =$	16. $\frac{13}{11} - \frac{13}{11} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{29}{6} - \frac{7}{2} =$	5. $\frac{41}{8} - \frac{4}{7} =$
2. $\frac{49}{11} - \frac{11}{7} =$	6. $\frac{24}{3} - \frac{38}{8} =$
3. $\frac{47}{11} - \frac{4}{10} =$	7. $\frac{42}{8} - \frac{4}{9} =$
4. $\frac{43}{9} - \frac{26}{6} =$	8. $\frac{32}{4} - \frac{5}{4} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{48}{11} - \frac{34}{8} =$	13. $\frac{40}{6} - \frac{5}{8} =$
10. $\frac{15}{6} - \frac{6}{9} =$	14. $\frac{29}{8} - \frac{15}{10} =$
11. $\frac{47}{3} - \frac{27}{10} =$	15. $\frac{37}{5} - \frac{7}{4} =$
12. $\frac{41}{2} - \frac{43}{5} =$	16. $\frac{26}{4} - \frac{39}{10} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{47}{6} - \frac{24}{10} =$	5. $\frac{50}{12} - \frac{32}{10} =$
2. $\frac{50}{9} - \frac{5}{4} =$	6. $\frac{41}{6} - \frac{35}{9} =$
3. $\frac{43}{3} - \frac{16}{10} =$	7. $\frac{42}{8} - \frac{24}{7} =$
4. $\frac{31}{11} - \frac{18}{10} =$	8. $\frac{33}{6} - \frac{14}{8} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{39}{10} - \frac{18}{10} =$	13. $\frac{25}{11} - \frac{2}{7} =$
10. $\frac{40}{12} - \frac{5}{2} =$	14. $\frac{46}{10} - \frac{11}{10} =$
11. $\frac{45}{6} - \frac{10}{9} =$	15. $\frac{17}{2} - \frac{46}{7} =$
12. $\frac{37}{5} - \frac{25}{7} =$	16. $\frac{38}{11} - \frac{1}{6} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{30}{4} - \frac{34}{7} =$	5. $\frac{4}{3} - \frac{5}{4} =$
2. $\frac{11}{6} - \frac{7}{8} =$	6. $\frac{45}{6} - \frac{16}{10} =$
3. $\frac{5}{2} - \frac{7}{9} =$	7. $\frac{45}{6} - \frac{16}{10} =$
4. $\frac{48}{11} - \frac{5}{10} =$	8. $\frac{38}{5} - \frac{8}{10} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{34}{7} - \frac{1}{7} =$	13. $\frac{41}{11} - \frac{34}{10} =$
10. $\frac{23}{4} - \frac{1}{7} =$	14. $\frac{37}{8} - \frac{12}{5} =$
11. $\frac{44}{5} - \frac{7}{2} =$	15. $\frac{11}{9} - \frac{6}{9} =$
12. $\frac{46}{5} - \frac{19}{3} =$	16. $\frac{38}{6} - \frac{45}{8} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{18}{7} - \frac{17}{7} =$	5. $\frac{25}{4} - \frac{19}{4} =$
2. $\frac{36}{7} - \frac{5}{8} =$	6. $\frac{34}{4} - \frac{11}{10} =$
3. $\frac{13}{3} - \frac{15}{4} =$	7. $\frac{35}{6} - \frac{21}{5} =$
4. $\frac{13}{5} - \frac{9}{7} =$	8. $\frac{38}{12} - \frac{23}{8} =$

CHAPTER 8 - SUBTRACTING FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{40}{7} - \frac{1}{3} =$	13. $\frac{47}{4} - \frac{50}{6} =$
10. $\frac{37}{11} - \frac{20}{6} =$	14. $\frac{20}{3} - \frac{13}{8} =$
11. $\frac{15}{4} - \frac{24}{10} =$	15. $\frac{44}{2} - \frac{37}{7} =$
12. $\frac{38}{4} - \frac{17}{7} =$	16. $\frac{29}{4} - \frac{1}{6} =$

CHAPTER 9 -
MULTIPLY & DIVIDE FRACTIONS

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

MULTIPLYING FRACTIONS

There are 3 Simple Steps to Multiply Fractions:

- **Step 1:** Multiply the top numbers (the numerators).
- **Step 2:** Multiply the bottom numbers (the denominators).
- **Step 3:** Simplify the fraction (if needed)

Example:

$$\frac{1}{2} \times \frac{2}{5}$$

Step 1. Multiply the top numbers:

$$\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{} = \frac{2}{}$$

Step 2. Multiply the bottom numbers:

$$\frac{1}{2} \times \frac{2}{5} = \frac{1 \times 2}{2 \times 5} = \frac{2}{10}$$

Step 3. Simplify the fraction:

$$\frac{2}{10} = \frac{1}{5}$$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS AND WHOLE NUMBERS

What about multiplying fractions and whole numbers?
Make the whole number a fraction, by putting it over 1.

Example: 5 is also $\frac{5}{1}$

Then continue as before.

Example:

$$\frac{2}{3} \times 5$$

Make 5 into $\frac{5}{1}$:

$$\frac{2}{3} \times \frac{5}{1}$$

Now just go ahead as normal.

Multiply tops and bottoms:

$$\frac{2}{3} \times \frac{5}{1} = \frac{2 \times 5}{3 \times 1} = \frac{10}{3}$$

The fraction is already as simple as it can be.

$$\text{Answer} = \frac{10}{3}$$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

DIVIDING FRACTIONS

There are 3 Simple Steps to Divide Fractions:

- **Step 1:** Turn the second fraction (the one you want to divide by) upside down (this is now a reciprocal).
- **Step 2:** Multiply the first fraction by that reciprocal
- **Step 3:** Simplify the fraction (if needed)

Example:

$$\frac{1}{2} \div \frac{1}{6}$$

Step 1. Turn the second fraction upside down (it becomes a **reciprocal**):

$$\frac{1}{6} \text{ becomes } \frac{6}{1}$$

Step 2. Multiply the first fraction by that **reciprocal**:

(multiply tops ...)

$$\frac{1}{2} \times \frac{6}{1} = \frac{1 \times 6}{2 \times 1} = \frac{6}{2}$$

(... multiply bottoms)

Step 3. Simplify the fraction:

$$\frac{6}{2} = 3$$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS AND WHOLE NUMBERS

What about division with fractions and whole numbers?
Make the whole number a fraction, by putting it over 1.

Example: 5 is also $\frac{5}{1}$

Example:

$$\frac{2}{3} \div 5$$

Make 5 into $\frac{5}{1}$:

$$\frac{2}{3} \div \frac{5}{1}$$

Then continue as before.

Step 1. Turn the second fraction upside down (the **reciprocal**):

$$\frac{5}{1} \text{ becomes } \frac{1}{5}$$

Step 2. Multiply the first fraction by that **reciprocal**:

$$\frac{2}{3} \times \frac{1}{5} = \frac{2 \times 1}{3 \times 5} = \frac{2}{15}$$

Step 3. Simplify the fraction:

The fraction is already as simple as it can be.

$$\text{Answer} = \frac{2}{15}$$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

WHY TURN THE FRACTIONS UPSIDE DOWN

Because dividing is the opposite of multiplying

For example :

A fraction says to:

- multiply by the top number
- divide by the bottom number

$\frac{3}{4}$ ← ×3, ÷4

But for **DIVISION** we:

- **divide** by the top number
- **multiply** by the bottom number

Example: dividing by $^5/_2$ is the same as multiplying by $^2/_5$

$\div \frac{5}{2}$ ← ÷5, ×2 *same!* $\times \frac{2}{5}$ ← ×2, ÷5

So instead of dividing by a fraction, it is easier to turn that fraction upside down, then do a multiply.

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{3}{8} \times \frac{5}{2} =$	5. $\frac{3}{8} \times \frac{2}{10} =$
2. $\frac{8}{7} \times \frac{3}{6} =$	6. $\frac{3}{10} \times \frac{8}{6} =$
3. $\frac{9}{8} \times \frac{8}{7} =$	7. $\frac{4}{6} \times \frac{1}{2} =$
4. $\frac{1}{7} \times \frac{5}{9} =$	8. $\frac{8}{9} \times \frac{7}{4} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{8}{3} \times \frac{6}{5} =$	13. $\frac{1}{5} \times \frac{3}{7} =$
10. $\frac{7}{10} \times \frac{7}{6} =$	14. $\frac{10}{9} \times \frac{10}{9} =$
11. $\frac{4}{5} \times \frac{10}{4} =$	15. $\frac{9}{10} \times \frac{1}{7} =$
12. $\frac{1}{7} \times \frac{6}{4} =$	16. $\frac{10}{7} \times \frac{10}{3} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{2}{6} \times \frac{8}{3} =$	5. $\frac{1}{7} \times \frac{4}{8} =$
2. $\frac{6}{4} \times \frac{6}{2} =$	6. $\frac{10}{5} \times \frac{4}{5} =$
3. $\frac{4}{10} \times \frac{8}{9} =$	7. $\frac{9}{10} \times \frac{9}{5} =$
4. $\frac{2}{8} \times \frac{5}{6} =$	8. $\frac{8}{9} \times \frac{10}{6}$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{3}{10} \times \frac{7}{5} =$	13. $\frac{4}{9} \times \frac{7}{2} =$
10. $\frac{5}{8} \times \frac{2}{4} =$	14. $\frac{2}{4} \times \frac{2}{9} =$
11. $\frac{8}{9} \times \frac{7}{7} =$	15. $\frac{6}{10} \times \frac{4}{10} =$
12. $\frac{10}{6} \times \frac{2}{5} =$	16. $\frac{1}{8} \times \frac{1}{8} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{6}{7} \times \frac{3}{6} =$	5. $\frac{1}{2} \times \frac{3}{5} =$
2. $\frac{9}{2} \times \frac{5}{3} =$	6. $\frac{3}{6} \times \frac{3}{6} =$
3. $\frac{2}{8} \times \frac{10}{6} =$	7. $\frac{5}{6} \times \frac{8}{7} =$
4. $\frac{5}{7} \times \frac{3}{7} =$	8. $\frac{4}{6} \times \frac{4}{5} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{6}{7} \times \frac{2}{6} =$	13. $\frac{10}{3} \times \frac{2}{9} =$
10. $\frac{1}{9} \times \frac{1}{10} =$	14. $\frac{4}{8} \times \frac{7}{3} =$
11. $\frac{3}{9} \times \frac{4}{9} =$	15. $\frac{8}{5} \times \frac{4}{6} =$
12. $\frac{1}{7} \times \frac{2}{10} =$	16. $\frac{7}{3} \times \frac{5}{3} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{1}{5} \times \frac{7}{3} =$	5. $\frac{4}{3} \times \frac{9}{6} =$
2. $\frac{10}{6} \times \frac{1}{8} =$	6. $\frac{4}{7} \times \frac{6}{10} =$
3. $\frac{9}{4} \times \frac{7}{5} =$	7. $\frac{4}{8} \times \frac{9}{8} =$
4. $\frac{2}{5} \times \frac{9}{10} =$	8. $\frac{6}{9} \times \frac{9}{4} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{3}{7} \times \frac{7}{8} =$	13. $\frac{8}{9} \times \frac{10}{6} =$
10. $\frac{2}{8} \times \frac{9}{6} =$	14. $\frac{5}{9} \times \frac{1}{3} =$
11. $\frac{1}{5} \times \frac{7}{8} =$	15. $\frac{4}{9} \times \frac{1}{7} =$
12. $\frac{2}{4} \times \frac{1}{7} =$	16. $\frac{10}{9} \times \frac{4}{9} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{6}{8} \times \frac{42}{5} =$	5. $\frac{26}{6} \times \frac{7}{10} =$
2. $\frac{35}{3} \times \frac{32}{4} =$	6. $\frac{20}{3} \times \frac{5}{4} =$
3. $\frac{2}{11} \times \frac{45}{7} =$	7. $\frac{42}{11} \times \frac{20}{9} =$
4. $\frac{1}{9} \times \frac{19}{8} =$	8. $\frac{35}{12} \times \frac{2}{3} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{47}{11} \times \frac{2}{8} =$	13. $\frac{23}{11} \times \frac{27}{8} =$
10. $\frac{6}{11} \times \frac{24}{2} =$	14. $\frac{5}{11} \times \frac{29}{10} =$
11. $\frac{3}{6} \times \frac{45}{10} =$	15. $\frac{43}{12} \times \frac{3}{9} =$
12. $\frac{9}{7} \times \frac{14}{4} =$	16. $\frac{12}{8} \times \frac{46}{5} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{43}{6} \times \frac{19}{2} =$	5. $\frac{43}{3} \times \frac{19}{2} =$
2. $\frac{15}{12} \times \frac{7}{9} =$	6. $\frac{49}{8} \times \frac{5}{4} =$
3. $\frac{36}{8} \times \frac{50}{4} =$	7. $\frac{28}{5} \times \frac{11}{5} =$
4. $\frac{49}{11} \times \frac{31}{6} =$	8. $\frac{43}{12} \times \frac{4}{7} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{19}{11} \times \frac{23}{10} =$	13. $\frac{37}{2} \times \frac{29}{10} =$
10. $\frac{27}{11} \times \frac{45}{2} =$	14. $\frac{29}{6} \times \frac{15}{7} =$
11. $\frac{46}{11} \times \frac{37}{9} =$	15. $\frac{41}{7} \times \frac{1}{7} =$
12. $\frac{44}{10} \times \frac{28}{10} =$	16. $\frac{27}{4} \times \frac{49}{5} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{21}{5} \times \frac{42}{4} =$	5. $\frac{33}{7} \times \frac{17}{7} =$
2. $\frac{26}{4} \times \frac{13}{8} =$	6. $\frac{35}{10} \times \frac{39}{7} =$
3. $\frac{11}{4} \times \frac{43}{2} =$	7. $\frac{3}{9} \times \frac{39}{5} =$
4. $\frac{37}{2} \times \frac{41}{10} =$	8. $\frac{19}{6} \times \frac{19}{6} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{16}{4} \times \frac{25}{3} =$	13. $\frac{7}{2} \times \frac{1}{3} =$
10. $\frac{3}{6} \times \frac{1}{8} =$	14. $\frac{1}{5} \times \frac{16}{5} =$
11. $\frac{49}{5} \times \frac{19}{7} =$	15. $\frac{19}{5} \times \frac{38}{8} =$
12. $\frac{32}{3} \times \frac{5}{6} =$	16. $\frac{10}{8} \times \frac{20}{9} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{18}{29} \times \frac{2}{46} =$	5. $\frac{45}{41} \times \frac{17}{5} =$
2. $\frac{18}{48} \times \frac{3}{27} =$	6. $\frac{48}{50} \times \frac{34}{24} =$
3. $\frac{44}{9} \times \frac{32}{29} =$	7. $\frac{23}{30} \times \frac{29}{13} =$
4. $\frac{30}{38} \times \frac{9}{23} =$	8. $\frac{19}{45} \times \frac{37}{36} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{26}{6} \times \frac{17}{7} =$	13. $\frac{17}{20} \times \frac{1}{14} =$
10. $\frac{18}{30} \times \frac{27}{20} =$	14. $\frac{35}{10} \times \frac{28}{19} =$
11. $\frac{44}{27} \times \frac{2}{14} =$	15. $\frac{26}{22} \times \frac{13}{33} =$
12. $\frac{11}{49} \times \frac{46}{3} =$	16. $\frac{17}{24} \times \frac{2}{12} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{24}{32} \times \frac{35}{49} =$	5. $\frac{10}{50} \times \frac{17}{6} =$
2. $\frac{34}{4} \times \frac{16}{45} =$	6. $\frac{24}{25} \times \frac{20}{45} =$
3. $\frac{36}{24} \times \frac{46}{39} =$	7. $\frac{44}{24} \times \frac{24}{45} =$
4. $\frac{1}{28} \times \frac{28}{34} =$	8. $\frac{42}{27} \times \frac{23}{38} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{20}{26} \times \frac{33}{30} =$	13. $\frac{16}{40} \times \frac{27}{12} =$
10. $\frac{39}{48} \times \frac{27}{28} =$	14. $\frac{5}{15} \times \frac{28}{24} =$
11. $\frac{22}{7} \times \frac{35}{12} =$	15. $\frac{22}{33} \times \frac{1}{10} =$
12. $\frac{18}{38} \times \frac{43}{3} =$	16. $\frac{22}{18} \times \frac{15}{8} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{15}{100} \times \frac{47}{37} =$	5. $\frac{72}{80} \times \frac{95}{89} =$
2. $\frac{93}{71} \times \frac{22}{86} =$	6. $\frac{44}{91} \times \frac{86}{24} =$
3. $\frac{62}{84} \times \frac{28}{44} =$	7. $\frac{14}{51} \times \frac{100}{21} =$
4. $\frac{77}{85} \times \frac{61}{16} =$	8. $\frac{40}{78} \times \frac{35}{82} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{62}{70} \times \frac{65}{76} =$	13. $\frac{23}{60} \times \frac{30}{98} =$
10. $\frac{26}{70} \times \frac{65}{76} =$	14. $\frac{82}{63} \times \frac{40}{96} =$
11. $\frac{39}{21} \times \frac{13}{79} =$	15. $\frac{11}{44} \times \frac{86}{78} =$
12. $\frac{62}{55} \times \frac{93}{20} =$	16. $\frac{17}{13} \times \frac{54}{94} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{15}{3} \div \frac{2}{8} =$	5. $\frac{1}{8} \div \frac{3}{7} =$
2. $\frac{3}{9} \div \frac{6}{5} =$	6. $\frac{4}{5} \div \frac{3}{9} =$
3. $\frac{2}{3} \div \frac{10}{3} =$	7. $\frac{6}{9} \div \frac{1}{6} =$
4. $\frac{1}{3} \div \frac{4}{8} =$	8. $\frac{7}{3} \div \frac{3}{10} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{1}{3} \div \frac{8}{6} =$	13. $\frac{1}{5} \div \frac{8}{10} =$
10. $\frac{4}{8} \div \frac{1}{4} =$	14. $\frac{6}{5} \div \frac{1}{8} =$
11. $\frac{10}{8} \div \frac{3}{10} =$	15. $\frac{4}{7} \div \frac{4}{6} =$
12. $\frac{1}{4} \div \frac{2}{6} =$	16. $\frac{8}{6} \div \frac{1}{3} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{9}{2} \div \frac{5}{4} =$	5. $\frac{3}{7} \div \frac{3}{10} =$
2. $\frac{8}{5} \div \frac{9}{4} =$	6. $\frac{8}{7} \div \frac{6}{9} =$
3. $\frac{6}{7} \div \frac{6}{9} =$	7. $\frac{4}{7} \div \frac{8}{10} =$
4. $\frac{4}{10} \div \frac{5}{6} =$	8. $\frac{7}{5} \div \frac{5}{10} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{7}{9} \div \frac{8}{3} =$	13. $\frac{9}{6} \div \frac{2}{3} =$
10. $\frac{1}{8} \div \frac{3}{7} =$	14. $\frac{5}{6} \div \frac{1}{10} =$
11. $\frac{9}{10} \div \frac{10}{6} =$	15. $\frac{1}{5} \div \frac{7}{10} =$
12. $\frac{7}{2} \div \frac{9}{5} =$	16. $\frac{2}{4} \div \frac{2}{10} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{3}{4} \div \frac{5}{6} =$	5. $\frac{1}{2} \div \frac{9}{5} =$
2. $\frac{8}{6} \div \frac{2}{4} =$	6. $\frac{6}{7} \div \frac{6}{10} =$
3. $\frac{7}{5} \div \frac{3}{2} =$	7. $\frac{10}{8} \div \frac{8}{9} =$
4. $\frac{7}{9} \div \frac{7}{10} =$	8. $\frac{9}{5} \div \frac{10}{4} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{4}{6} \div \frac{10}{9} =$	13. $\frac{3}{10} \div \frac{5}{9} =$
10. $\frac{9}{7} \div \frac{7}{6} =$	14. $\frac{10}{4} \div \frac{8}{7} =$
11. $\frac{3}{6} \div \frac{3}{5} =$	15. $\frac{9}{4} \div \frac{3}{8} =$
12. $\frac{10}{4} \div \frac{4}{3} =$	16. $\frac{5}{10} \div \frac{9}{6} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{14}{11} \div \frac{21}{4} =$	5. $\frac{34}{5} \div \frac{47}{5} =$
2. $\frac{38}{3} \div \frac{23}{6} =$	6. $\frac{14}{3} \div \frac{42}{8} =$
3. $\frac{31}{9} \div \frac{34}{8} =$	7. $\frac{47}{6} \div \frac{49}{9} =$
4. $\frac{21}{12} \div \frac{43}{5} =$	8. $\frac{50}{2} \div \frac{39}{5} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{18}{12} \div \frac{40}{3} =$	13. $\frac{13}{12} \div \frac{3}{10} =$
10. $\frac{5}{3} \div \frac{3}{4} =$	14. $\frac{33}{8} \div \frac{21}{6} =$
11. $\frac{27}{10} \div \frac{14}{5} =$	15. $\frac{31}{5} \div \frac{18}{5} =$
12. $\frac{35}{3} \div \frac{14}{4} =$	16. $\frac{3}{12} \div \frac{26}{5} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{31}{8} \div \frac{1}{4} =$	5. $\frac{5}{4} \div \frac{17}{7} =$
2. $\frac{39}{9} \div \frac{31}{2} =$	6. $\frac{47}{4} \div \frac{27}{8} =$
3. $\frac{21}{2} \div \frac{26}{9} =$	7. $\frac{22}{12} \div \frac{10}{9} =$
4. $\frac{27}{8} \div \frac{7}{3} =$	8. $\frac{31}{12} \div \frac{34}{10} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{50}{3} \div \frac{5}{4} =$	13. $\frac{31}{10} \div \frac{10}{7} =$
10. $\frac{20}{11} \div \frac{47}{3} =$	14. $\frac{22}{3} \div \frac{38}{4} =$
11. $\frac{30}{11} \div \frac{2}{6} =$	15. $\frac{21}{10} \div \frac{33}{7} =$
12. $\frac{43}{6} \div \frac{41}{6} =$	16. $\frac{12}{8} \div \frac{14}{10} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{19}{9} \div \frac{47}{6} =$	5. $\frac{21}{7} \div \frac{22}{5} =$
2. $\frac{8}{10} \div \frac{27}{8} =$	6. $\frac{25}{11} \div \frac{27}{2} =$
3. $\frac{21}{5} \div \frac{2}{10} =$	7. $\frac{18}{11} \div \frac{35}{10} =$
4. $\frac{15}{12} \div \frac{2}{3} =$	8. $\frac{17}{12} \div \frac{3}{8} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{28}{6} \div \frac{26}{9} =$	13. $\frac{11}{5} \div \frac{38}{4} =$
10. $\frac{31}{12} \div \frac{42}{9} =$	14. $\frac{4}{11} \div \frac{4}{5} =$
11. $\frac{16}{6} \div \frac{37}{5} =$	15. $\frac{44}{6} \div \frac{18}{4} =$
12. $\frac{29}{12} \div \frac{43}{5} =$	16. $\frac{18}{10} \div \frac{32}{7} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{7}{5} \div \frac{11}{39} =$	5. $\frac{9}{22} \div \frac{6}{32} =$
2. $\frac{17}{24} \div \frac{24}{49} =$	6. $\frac{45}{14} \div \frac{47}{7} =$
3. $\frac{44}{14} \div \frac{1}{46} =$	7. $\frac{21}{50} \div \frac{10}{27} =$
4. $\frac{15}{10} \div \frac{41}{20} =$	8. $\frac{15}{10} \div \frac{29}{6} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{2}{18} \div \frac{13}{24} =$	13. $\frac{33}{48} \div \frac{1}{2} =$
10. $\frac{23}{9} \div \frac{50}{33} =$	14. $\frac{6}{33} \div \frac{1}{12} =$
11. $\frac{45}{29} \div \frac{49}{35} =$	15. $\frac{41}{29} \div \frac{19}{6} =$
12. $\frac{10}{50} \div \frac{32}{20} =$	16. $\frac{41}{33} \div \frac{21}{20} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{39}{28} \div \frac{31}{12} =$	5. $\frac{19}{20} \div \frac{49}{26} =$
2. $\frac{12}{45} \div \frac{41}{33} =$	6. $\frac{22}{45} \div \frac{46}{39} =$
3. $\frac{46}{12} \div \frac{6}{49} =$	7. $\frac{28}{34} \div \frac{33}{35} =$
4. $\frac{23}{35} \div \frac{18}{20} =$	8. $\frac{34}{6} \div \frac{9}{16} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{33}{15} \div \frac{28}{18} =$	13. $\frac{11}{36} \div \frac{15}{34} =$
10. $\frac{37}{46} \div \frac{49}{32} =$	14. $\frac{4}{49} \div \frac{19}{43} =$
11. $\frac{45}{4} \div \frac{40}{39} =$	15. $\frac{39}{36} \div \frac{9}{17} =$
12. $\frac{15}{25} \div \frac{50}{43} =$	16. $\frac{20}{40} \div \frac{49}{21} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{14}{49} \div \frac{8}{22} =$	5. $\frac{7}{20} \div \frac{6}{41} =$
2. $\frac{19}{18} \div \frac{35}{23} =$	6. $\frac{38}{40} \div \frac{28}{12} =$
3. $\frac{17}{30} \div \frac{35}{30} =$	7. $\frac{5}{20} \div \frac{12}{6} =$
4. $\frac{22}{3} \div \frac{41}{3} =$	8. $\frac{16}{23} \div \frac{10}{26} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{27}{4} \div \frac{16}{34} =$	13. $\frac{17}{27} \div \frac{2}{42} =$
10. $\frac{36}{14} \div \frac{22}{8} =$	14. $\frac{16}{26} \div \frac{45}{47} =$
11. $\frac{6}{23} \div \frac{45}{24} =$	15. $\frac{11}{13} \div \frac{14}{16} =$
12. $\frac{42}{26} \div \frac{15}{39} =$	16. $\frac{14}{44} \div \frac{49}{21} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

1. $\frac{20}{56} \div \frac{13}{40} =$	5. $\frac{40}{82} \div \frac{80}{61} =$
2. $\frac{65}{97} \div \frac{21}{85} =$	6. $\frac{79}{27} \div \frac{64}{79} =$
3. $\frac{53}{47} \div \frac{49}{70} =$	7. $\frac{28}{47} \div \frac{52}{50} =$
4. $\frac{87}{97} \div \frac{76}{44} =$	8. $\frac{23}{18} \div \frac{26}{25} =$

CHAPTER 9 - MULTIPLY & DIVIDE FRACTIONS

FRACTIONS WORKSHEET

9. $\frac{71}{48} \div \frac{73}{68} =$	13. $\frac{13}{86} \div \frac{30}{19} =$
10. $\frac{86}{51} \div \frac{26}{85} =$	14. $\frac{49}{36} \div \frac{20}{39} =$
11. $\frac{20}{80} \div \frac{100}{61} =$	15. $\frac{93}{28} \div \frac{34}{27} =$
12. $\frac{17}{67} \div \frac{10}{54} =$	16. $\frac{62}{13} \div \frac{79}{90} =$

CHAPTER 10 - ICAS

MATERIAL FOR THIS WEEK WILL BE
PROVIDED BY YOUR TUTOR IN THE CLASS