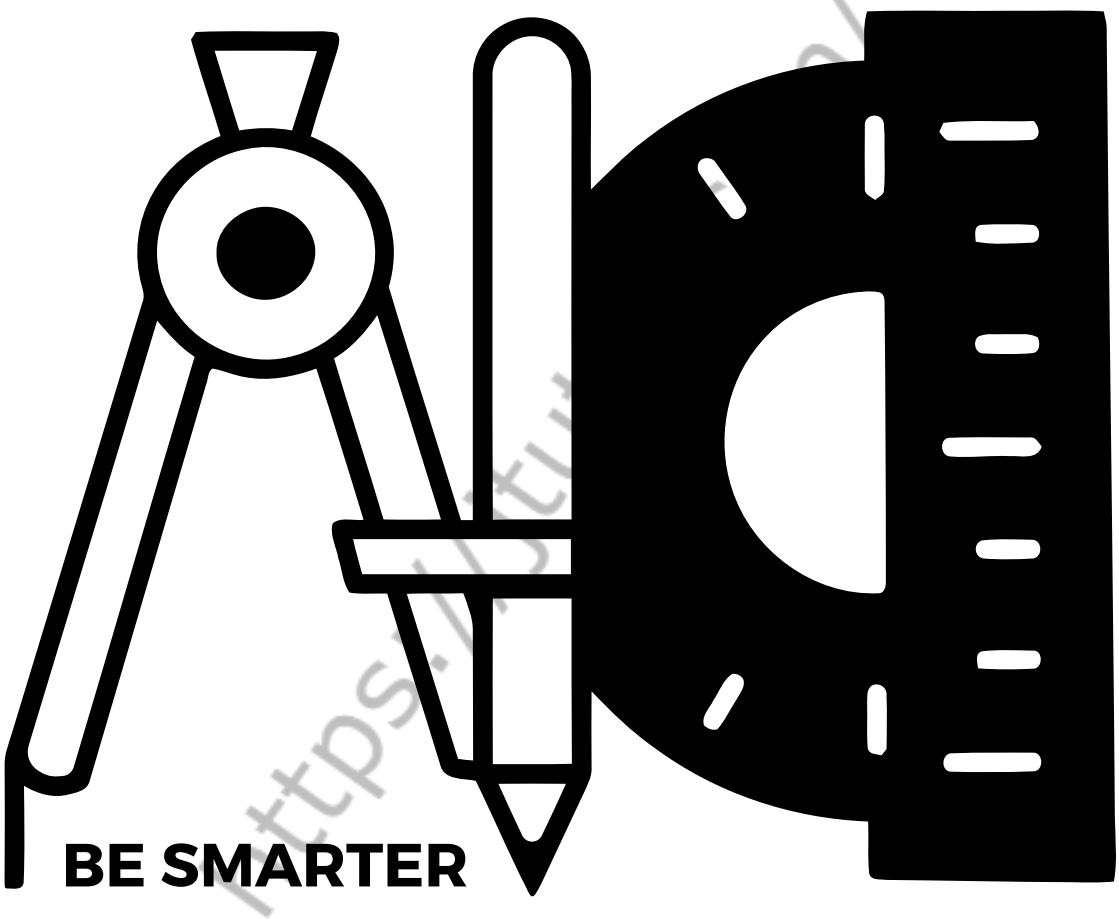
J-TUTES



YEAR 3 WORKBOOK

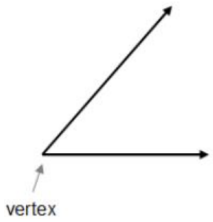
TERM 4 SYLLABUS

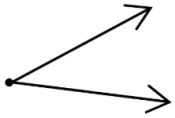
CHAPTER 1 - ANGLES

CHAPTER 1 - ANGLES

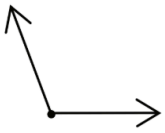
Basic Geometry: Anatomy of an Angle

An angle is made up of two rays that share a common endpoint. The vertex of an angle is the point where the two rays meet.

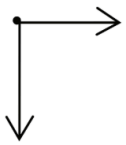




An **acute** angle is less than 90°

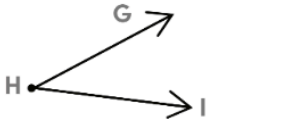


An **obtuse** angle is greater than 90°



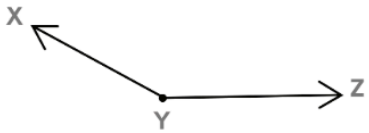
A **right** angle is 90°

Directions: Look at each angle and write whether it is acute, obtuse, or right. Then write the letter that represents its vertex.



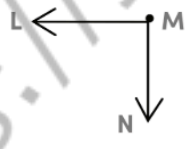
Angle: _____ Vertex: ____

Angle: _____ Vertex: ____

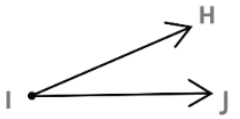


Angle: _____ Vertex: ____

Angle: _____ Vertex: ____

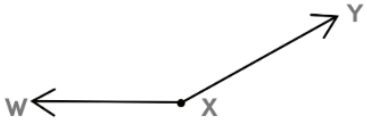


Angle: _____ Vertex: ____

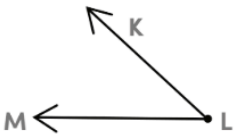


Angle: _____ Vertex: ____

Angle: _____ Vertex: ____



Angle: _____ Vertex: ____



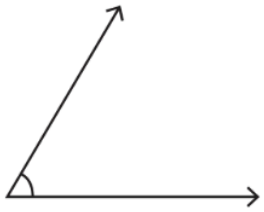
Angle: _____ Vertex: ____

1. An angle measuring less than 90° is called a(n) _____ angle.
2. An angle measuring exactly 90° is called a(n) _____ angle.
3. An angle measuring more than 90° is called a(n) _____ angle.

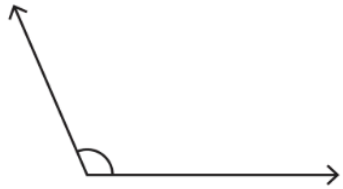
CHAPTER 1 - ANGLES

CLASSIFYING ANGLES

Classify each angle as acute, obtuse, right or straight.

1) 

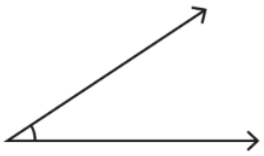
Type :_____

2) 

Type :_____

3) 

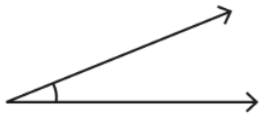
Type :_____

4) 

Type :_____

5) 

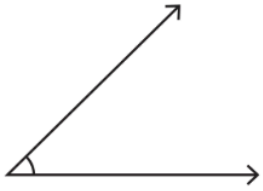
Type :_____

6) 

Type :_____

7) 

Type :_____

8) 

Type :_____

9) 

Type :_____

10) 49^{o}

Type :_____

11) 82^{o}

Type :_____

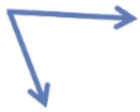
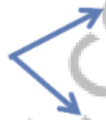
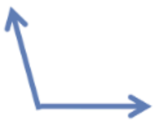
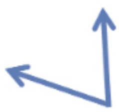
12) 180^{o}

Type :_____

CHAPTER 1 - ANGLES

CLASSIFYING ANGLES

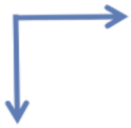
Circle the correct names for the following angles.

			
Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute
			
Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute
			
Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute
			
Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute	Right / Obtuse / Acute

CHAPTER 1 - ANGLES

COMPARING ANGLES WITH RIGHT ANGLES

Are the following angles are smaller than, larger than or equal to a right angle?

			
Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right
			
Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right
			
Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right
			
Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right	Smaller / Larger / Right

CHAPTER 1 - ANGLES

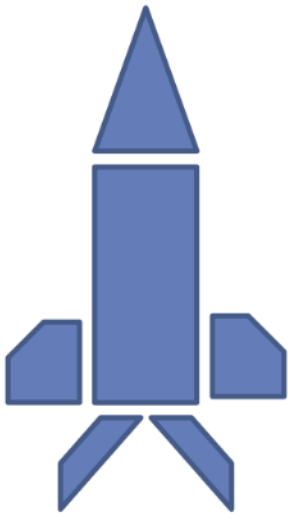
IDENTIFYING RIGHT ANGLES

Mark and count the number of right angles in the following figures.

_____ right angle(s)

_____ right angle(s)

_____ right angle(s)

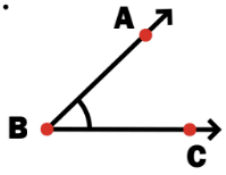


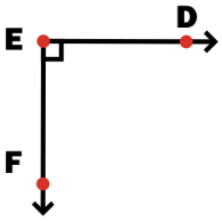
_____ right angle(s)

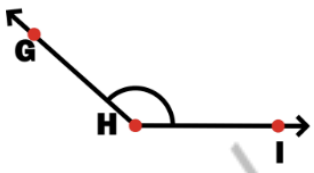
CHAPTER 1 - ANGLES

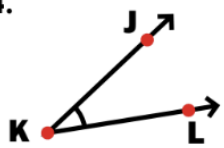
THREE TYPES OF ANGLES

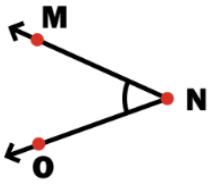
Label each angle as acute, obtuse, or right.

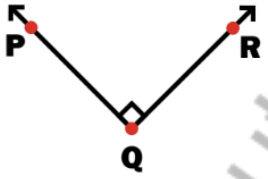
1. 

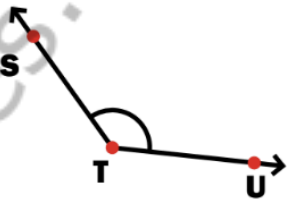
2. 

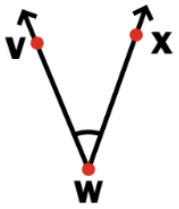
3. 

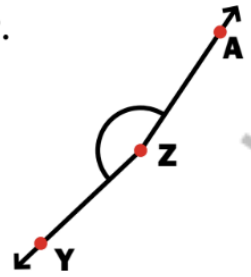
4. 

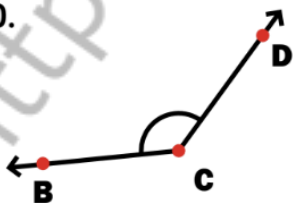
5. 

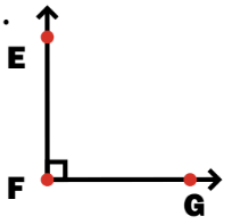
6. 

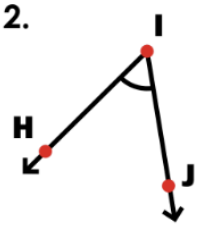
7. 

8. 

9. 

10. 

11. 

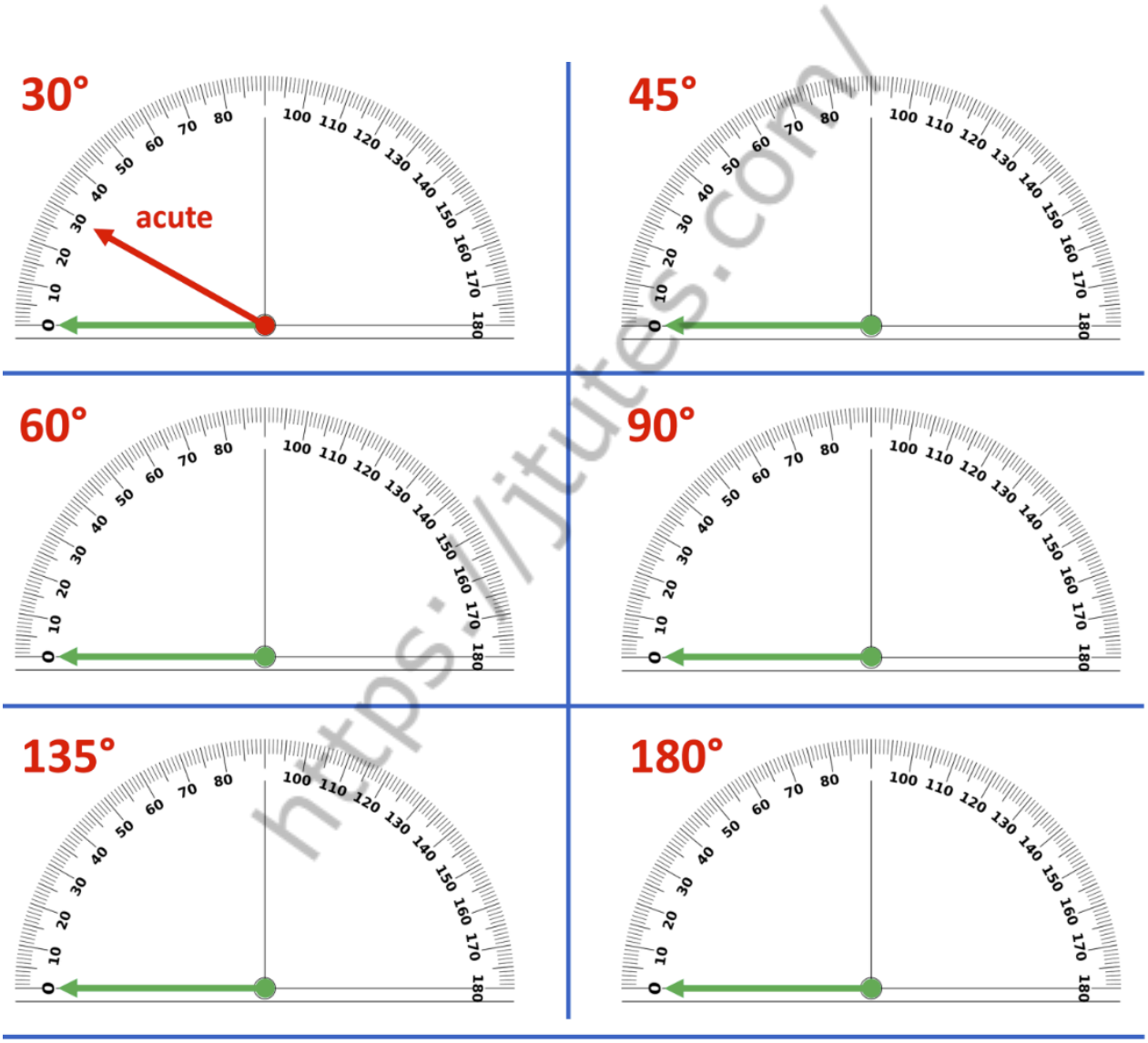
12. 

CHAPTER 1 - ANGLES

DRAWING ANGLES WITH A PROTRACTOR

The protractors shown below each have a green ray drawn from the bottom center out to the 0° marking. Draw a second ray to create the angle shown in red.

Label each angle as acute, obtuse, right, or straight. The first one has been done for you.



CHAPTER 1 - ANGLES

MEASURING AND CLASSIFYING ANGLES

Measure the angles and classify them as "right", "acute" or "obtuse".

1. 

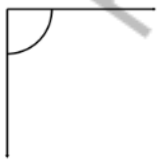
2. 

3. 

4. 

5. 

6. 

7. 

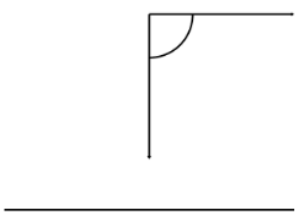
8. 

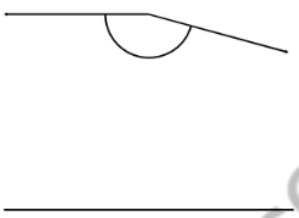
9. 

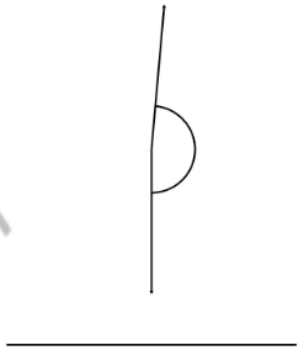
CHAPTER 1 - ANGLES

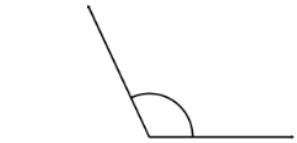
MEASURING AND CLASSIFYING ANGLES

Measure the angles and classify them as "right", "acute" or "obtuse".

1. 

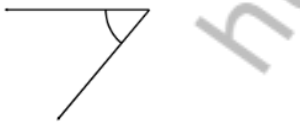
2. 

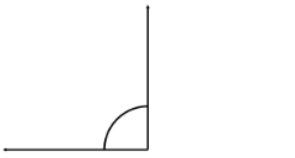
3. 

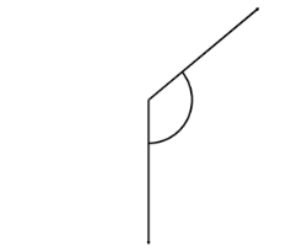
4. 

5. 

6. 

7. 

8. 

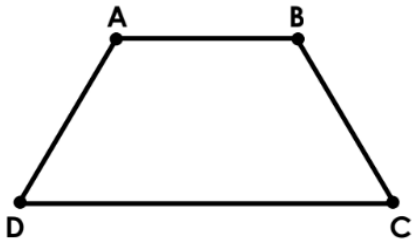
9. 

CHAPTER 1 - ANGLES

TYPES OF ANGLES

Tell whether each angle is obtuse, acute, or right.

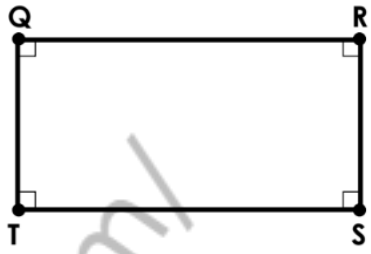
1. trapezoid



∠ ADC - _____

∠ DAB - _____

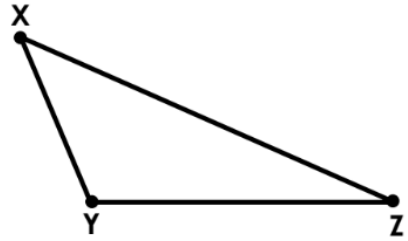
2. rectangle



∠ QTS - _____

∠ SRQ - _____

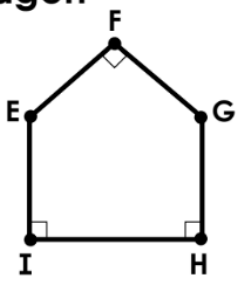
3. triangle



∠ XYZ - _____

∠ XZY - _____

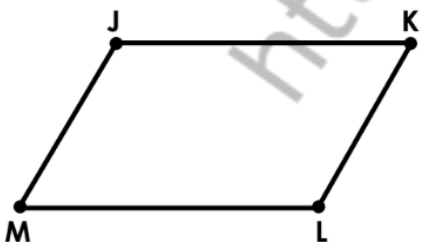
4. pentagon



∠ EFG - _____

∠ FEI - _____

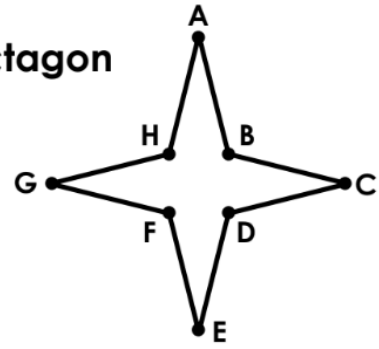
5. parallelogram



∠ JKL - _____

∠ MLK - _____

6. octagon



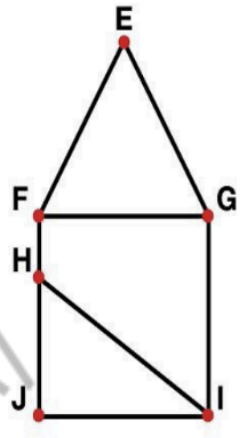
∠ GHA - _____

∠ FED - _____

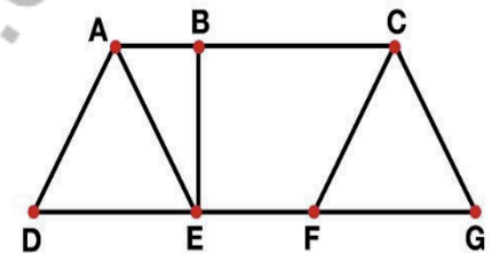
CHAPTER 1 - ANGLES

FIND THE ANGLES

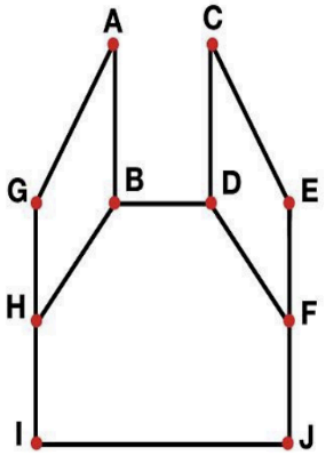
Acute Angles	Obtuse Angles	Right Angles



Acute Angles	Obtuse Angles	Right Angles



Acute Angles	Obtuse Angles	Right Angles



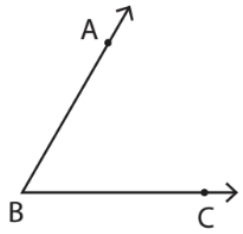
CHAPTER 2 - ANGLES

CHAPTER 2 - ANGLES

VERTEX & SIDES

Name the vertex and sides that form each angle.

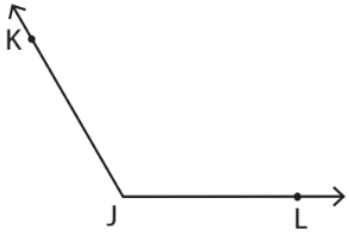
1)



Vertex : _____

Sides : _____

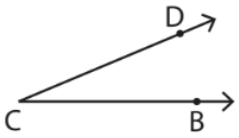
2)



Vertex : _____

Sides : _____

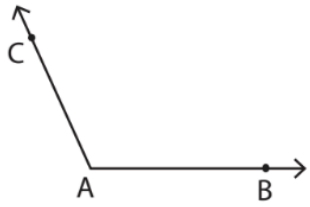
3)



Vertex : _____

Sides : _____

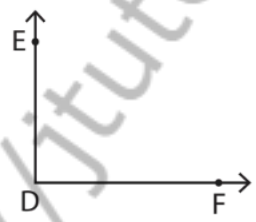
4)



Vertex : _____

Sides : _____

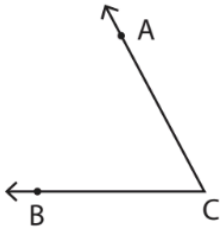
5)



Vertex : _____

Sides : _____

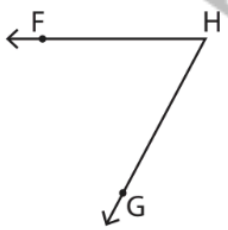
6)



Vertex : _____

Sides : _____

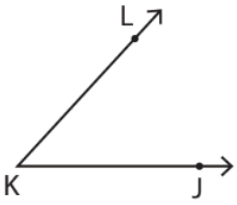
7)



Vertex : _____

Sides : _____

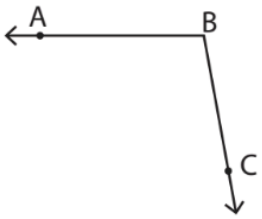
8)



Vertex : _____

Sides : _____

9)



Vertex : _____

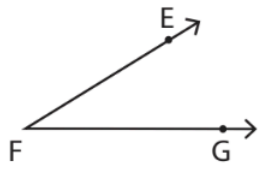
Sides : _____

CHAPTER 2 - ANGLES

VERTEX & SIDES

Name the vertex and sides that form each angle.

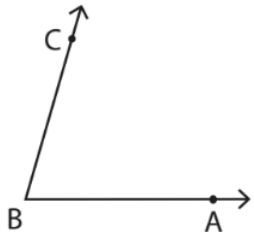
1)



Vertex : _____

Sides : _____

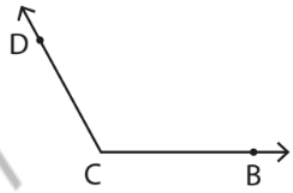
2)



Vertex : _____

Sides : _____

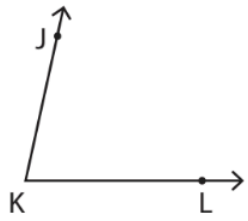
3)



Vertex : _____

Sides : _____

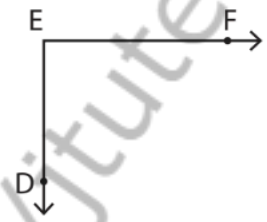
4)



Vertex : _____

Sides : _____

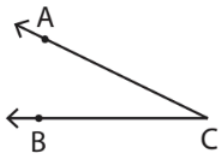
5)



Vertex : _____

Sides : _____

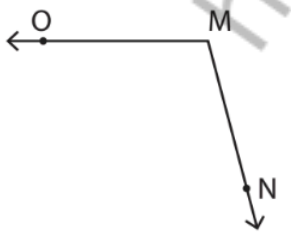
6)



Vertex : _____

Sides : _____

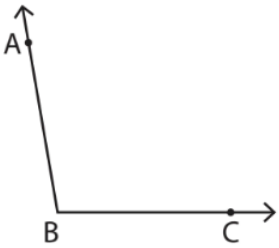
7)



Vertex : _____

Sides : _____

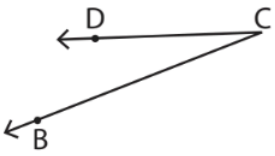
8)



Vertex : _____

Sides : _____

9)



Vertex : _____

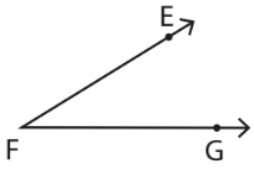
Sides : _____

CHAPTER 2 - ANGLES

VERTEX & SIDES

Name the vertex and sides that form each angle.

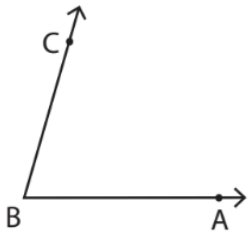
1)



Vertex : _____

Sides : _____

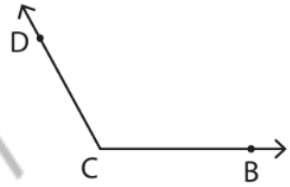
2)



Vertex : _____

Sides : _____

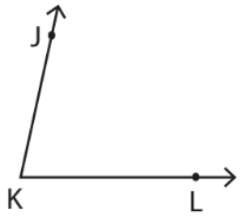
3)



Vertex : _____

Sides : _____

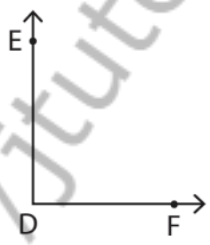
4)



Vertex : _____

Sides : _____

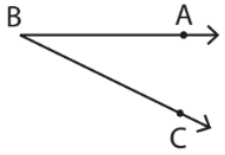
5)



Vertex : _____

Sides : _____

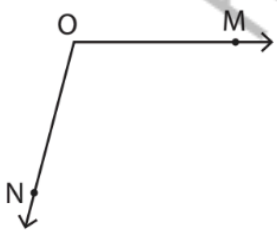
6)



Vertex : _____

Sides : _____

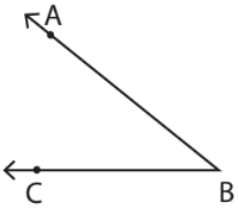
7)



Vertex : _____

Sides : _____

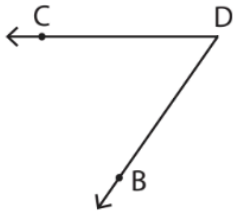
8)



Vertex : _____

Sides : _____

9)

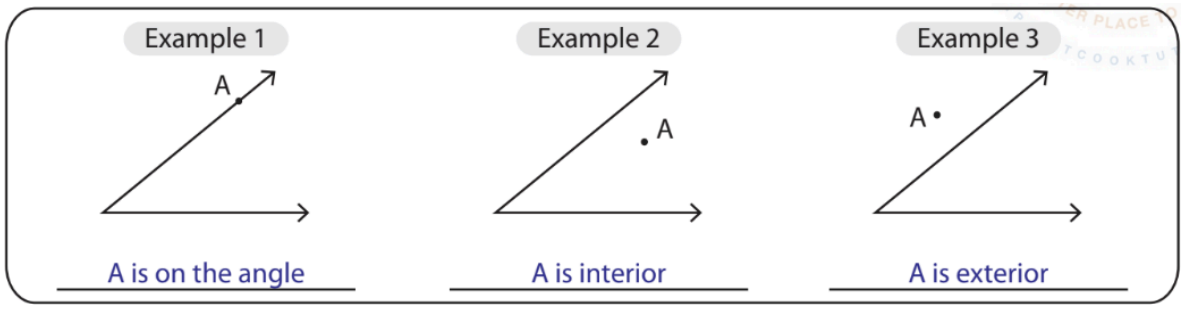


Vertex : _____

Sides : _____

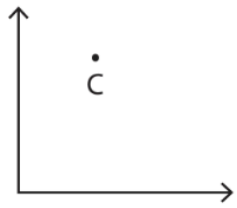
CHAPTER 2 - ANGLES

POSITION OF POINTS

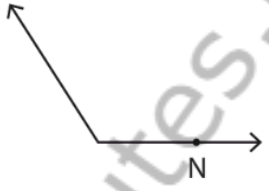


Identify whether each point is in the interior, exterior or on the angle.

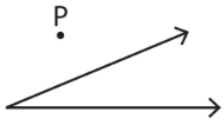
1)



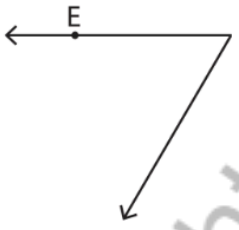
2)



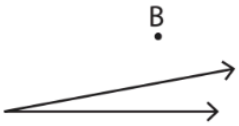
3)



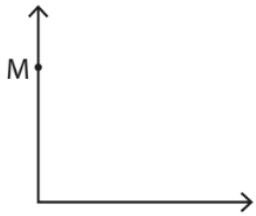
4)



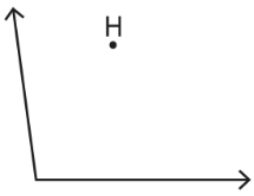
5)



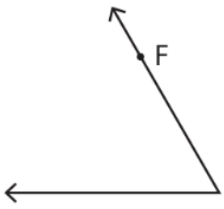
6)



7)



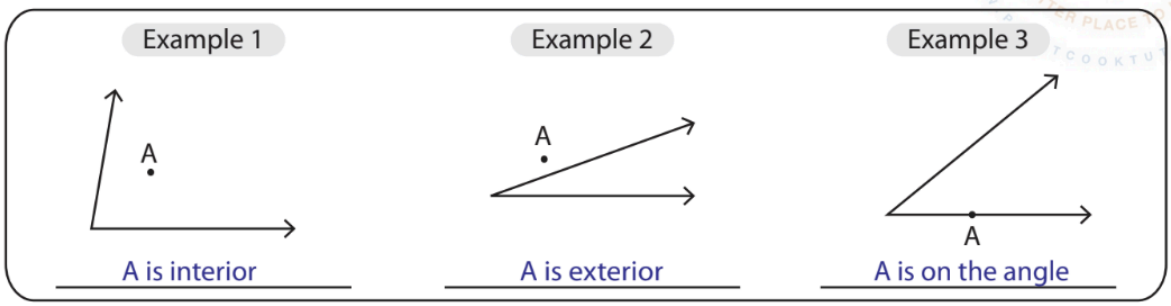
8)



9)

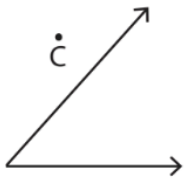
CHAPTER 2 - ANGLES

POSITION OF POINTS

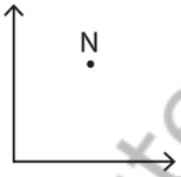


Identify whether each point is in the interior, exterior or on the angle.

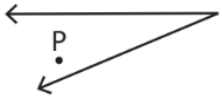
1)



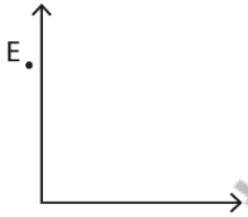
2)



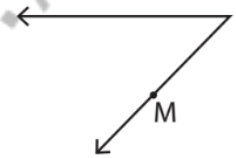
3)



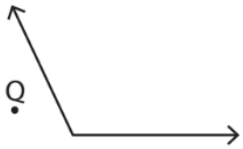
4)



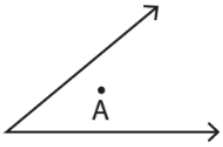
5)



6)

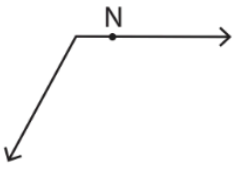


7)



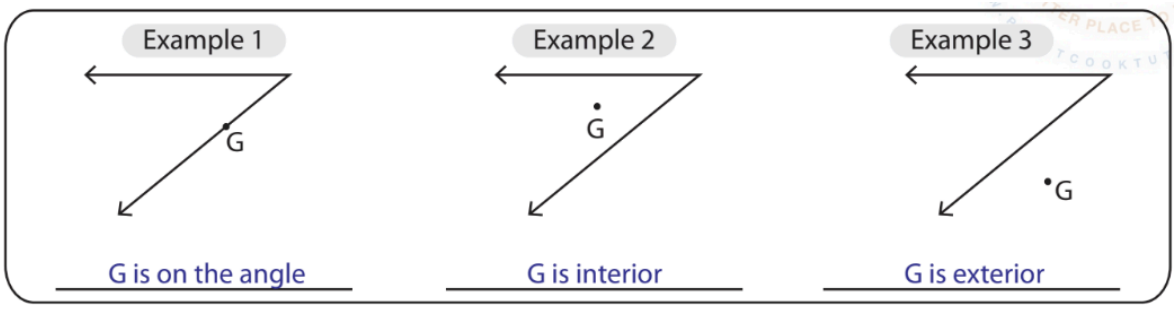
8)

9)



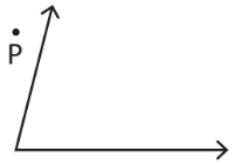
CHAPTER 2 - ANGLES

POSITION OF POINTS

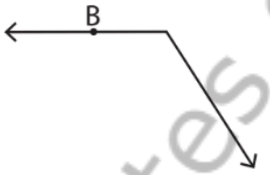


Identify whether each point is in the interior, exterior or on the angle.

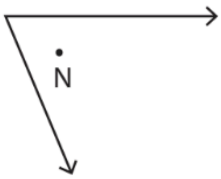
1)



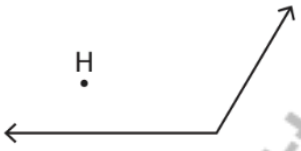
2)



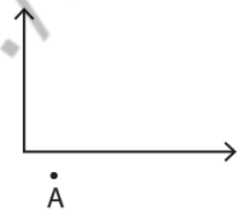
3)



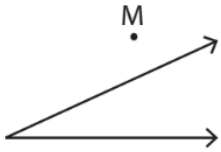
4)



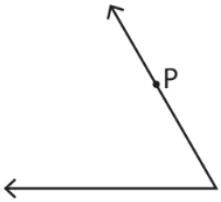
5)



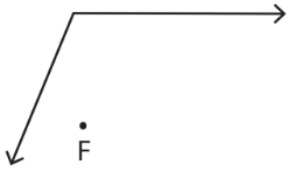
6)



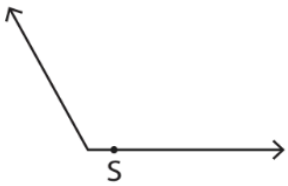
7)



8)



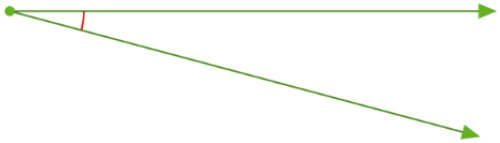
9)



CHAPTER 2 - ANGLES

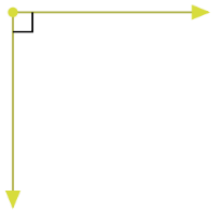
ESTIMATE ANGLE MEASUREMENTS

#1 What is the measurement of this angle? Choose the best estimate.



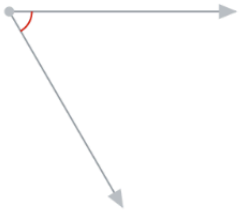
- ○ 60 degrees
- ○ 90 degrees
- ○ 15 degrees
- ○ 45 degrees

#2



- ○ 60 degrees
- ○ 15 degrees
- ○ 90 degrees
- ○ 5 degrees

#3 What is the measurement of this angle? Choose the best estimate.



- ○ 5 degrees
- ○ 90 degrees
- ○ 60 degrees
- ○ 30 degrees

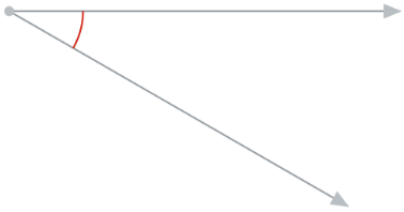
#4 What is the measurement of this angle? Choose the best estimate.

- ○ 15 degrees
- ○ 90 degrees
- ○ 60 degrees
- ○ 45 degrees

#5 What is the measurement of this angle? Choose the best estimate.

- ○ 60 degrees
- ○ 15 degrees
- ○ 45 degrees
- ○ 90 degrees

#6 What is the measurement of this angle? Choose the best estimate.



- ○ 90 degrees
- ○ 60 degrees
- ○ 30 degrees
- ○ 5 degrees

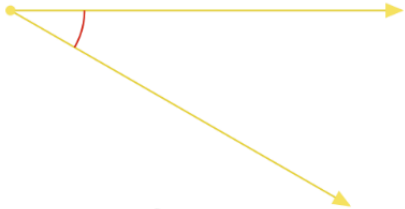
CHAPTER 2 - ANGLES

ESTIMATE ANGLE MEASUREMENTS

#7 What is the measurement of this angle? Choose the best estimate.

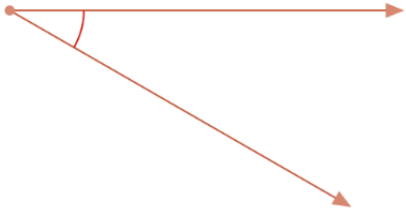
- ○ 45 degrees
- ○ 90 degrees
- ○ 30 degrees
- ○ 5 degrees

#8



- ○ 5 degrees
- ○ 60 degrees
- ○ 30 degrees
- ○ 90 degrees

#9 What is the measurement of this angle? Choose the best estimate.



- ○ 60 degrees
- ○ 30 degrees
- ○ 90 degrees
- ○ 5 degrees

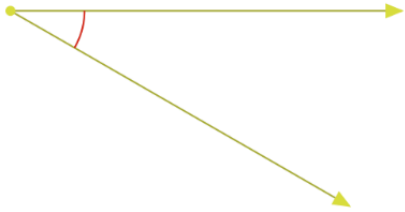
#10 What is the measurement of this angle? Choose the best estimate.

- ○ 45 degrees
- ○ 60 degrees
- ○ 90 degrees
- ○ 15 degrees

#11 What is the measurement of this angle? Choose the best estimate.

- ○ 45 degrees
- ○ 15 degrees
- ○ 5 degrees
- ○ 90 degrees

#12 What is the measurement of this angle? Choose the best estimate.

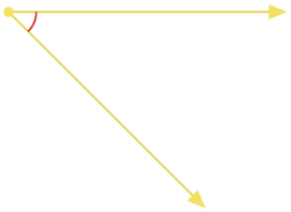


- ○ 30 degrees
- ○ 60 degrees
- ○ 90 degrees
- ○ 5 degrees

CHAPTER 2 - ANGLES

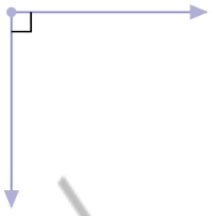
ESTIMATE ANGLE MEASUREMENTS

#13 What is the measurement of this angle? Choose the best estimate.



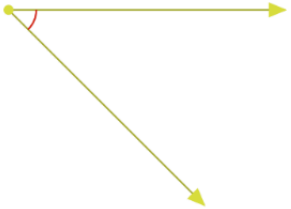
- ○ 15 degrees
- ○ 5 degrees
- ○ 45 degrees
- ○ 90 degrees

#14



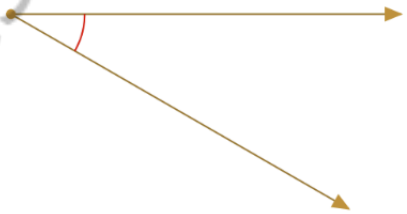
- ○ 60 degrees
- ○ 90 degrees
- ○ 45 degrees
- ○ 5 degrees

#15 What is the measurement of this angle? Choose the best estimate.



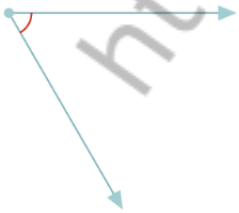
- ○ 45 degrees
- ○ 5 degrees
- ○ 15 degrees
- ○ 90 degrees

#16 What is the measurement of this angle? Choose the best estimate.



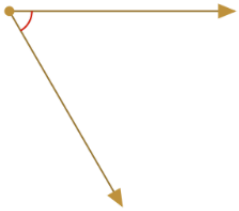
- ○ 30 degrees
- ○ 60 degrees
- ○ 5 degrees
- ○ 90 degrees

#17 What is the measurement of this angle? Choose the best estimate.



- ○ 5 degrees
- ○ 60 degrees
- ○ 15 degrees
- ○ 30 degrees

#18 What is the measurement of this angle? Choose the best estimate.



- ○ 5 degrees
- ○ 60 degrees
- ○ 30 degrees
- ○ 90 degrees

CHAPTER 2 - ANGLES

ESTIMATE ANGLE MEASUREMENTS

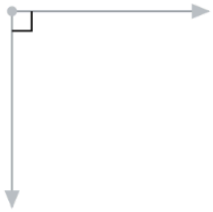
#19 What is the measurement of this angle? Choose the best estimate.

- ○ 60 degrees
- ○ 90 degrees
- ○ 45 degrees
- ○ 15 degrees

#20

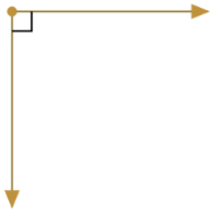
- ○ 90 degrees
- ○ 60 degrees
- ○ 45 degrees
- ○ 15 degrees

#21 What is the measurement of this angle? Choose the best estimate.



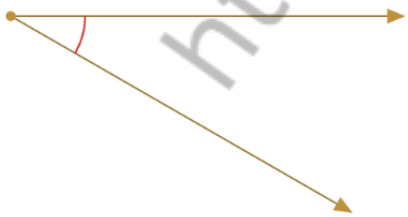
- ○ 30 degrees
- ○ 45 degrees
- ○ 90 degrees
- ○ 60 degrees

#22 What is the measurement of this angle? Choose the best estimate.



- ○ 90 degrees
- ○ 5 degrees
- ○ 15 degrees
- ○ 60 degrees

#23 What is the measurement of this angle? Choose the best estimate.



- ○ 5 degrees
- ○ 60 degrees
- ○ 30 degrees
- ○ 90 degrees

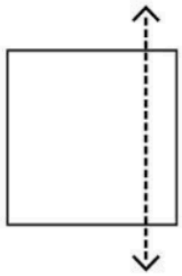
#24 What is the measurement of this angle? Choose the best estimate.

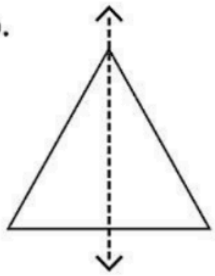
- ○ 5 degrees
- ○ 60 degrees
- ○ 45 degrees
- ○ 30 degrees

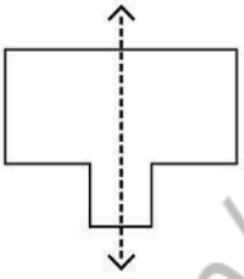
CHAPTER 3 - SYMMETRY

CHAPTER 3 - SYMMETRY

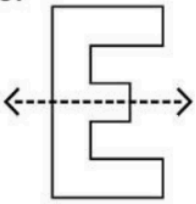
Tell whether the dotted line on each shape is a line of symmetry. Write yes or no.

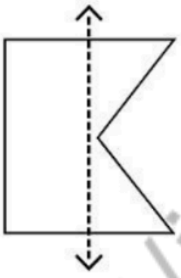
a. 

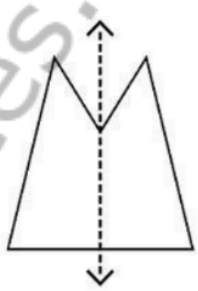
b. 

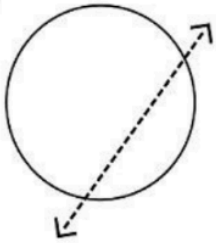
c. 

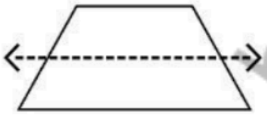
d. 

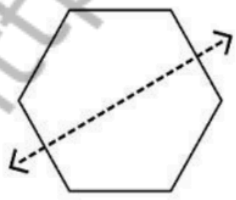
e. 

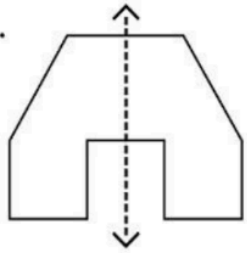
f. 

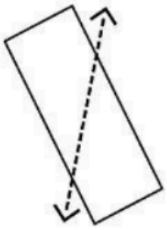
g. 

h. 

i. 

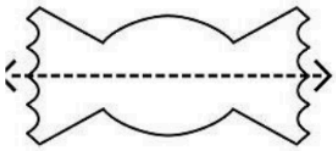
j. 

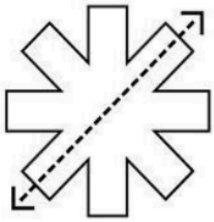
k. 

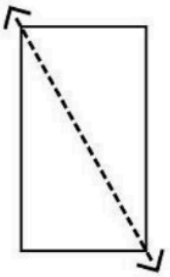
d. 

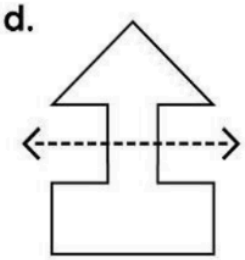
CHAPTER 3 - SYMMETRY

Tell whether the dotted line on each shape represents a line of symmetry. Write yes or no.

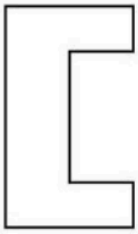
a. 

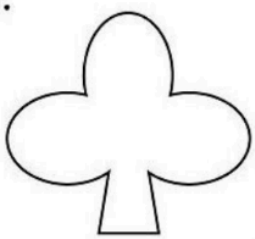
b. 

c. 

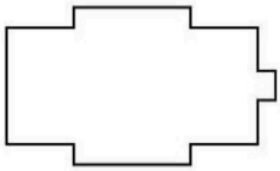
d. 

Draw a line of symmetry on each shape.

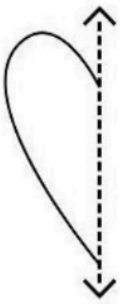
e. 

f. 

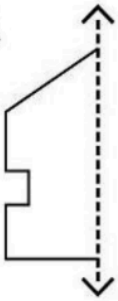
g. 

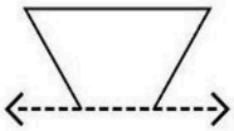
h. 

Draw the second half of each symmetrical shape.

i. 

j. 

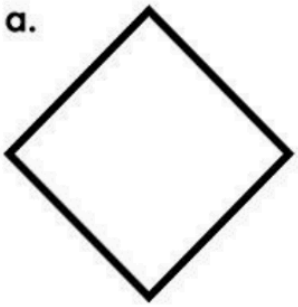
k. 

l. 

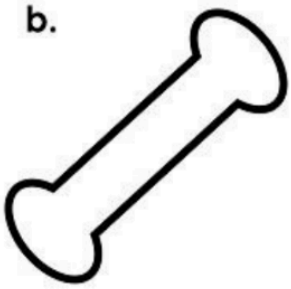
CHAPTER 3 - SYMMETRY

Draw lines of symmetry on the shapes below. Some shapes may have more than one line of symmetry.

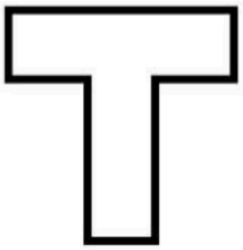
a.



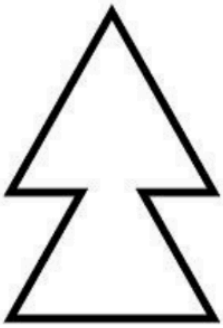
b.



c.

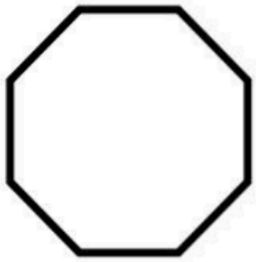


d.

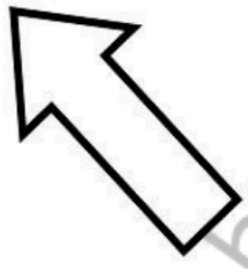


e.

f.



g.



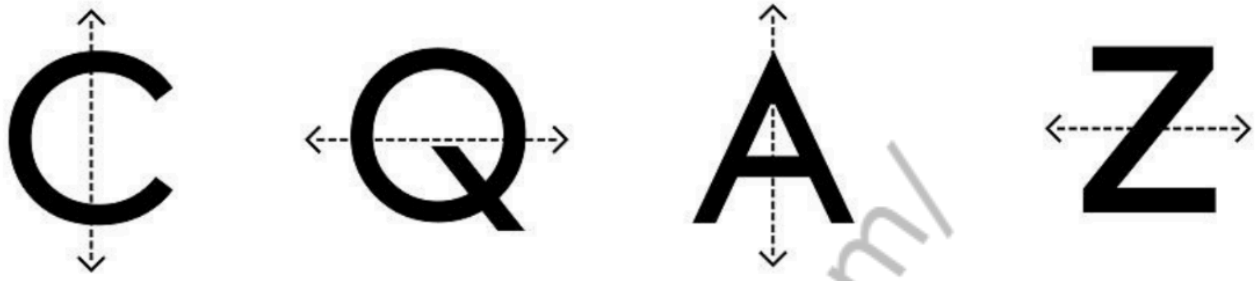
h.

i.

CHAPTER 3 - SYMMETRY

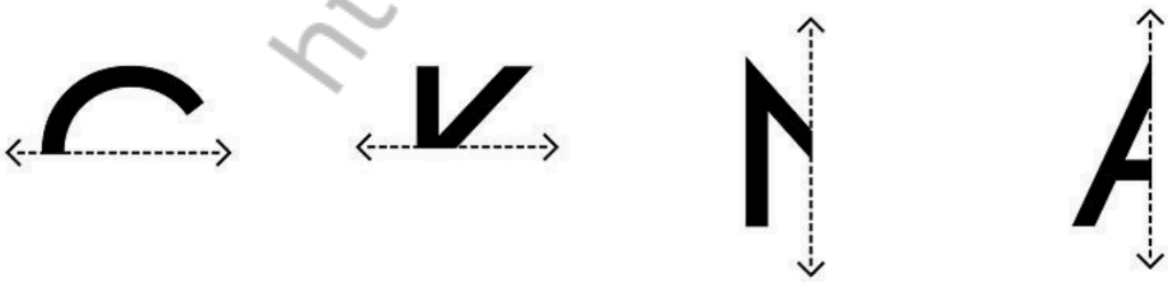
ALPHABET SYMMETRY

Tell whether the dotted line on each letter represents a line of symmetry. Write yes or no.



Draw a line of symmetry on each letter.

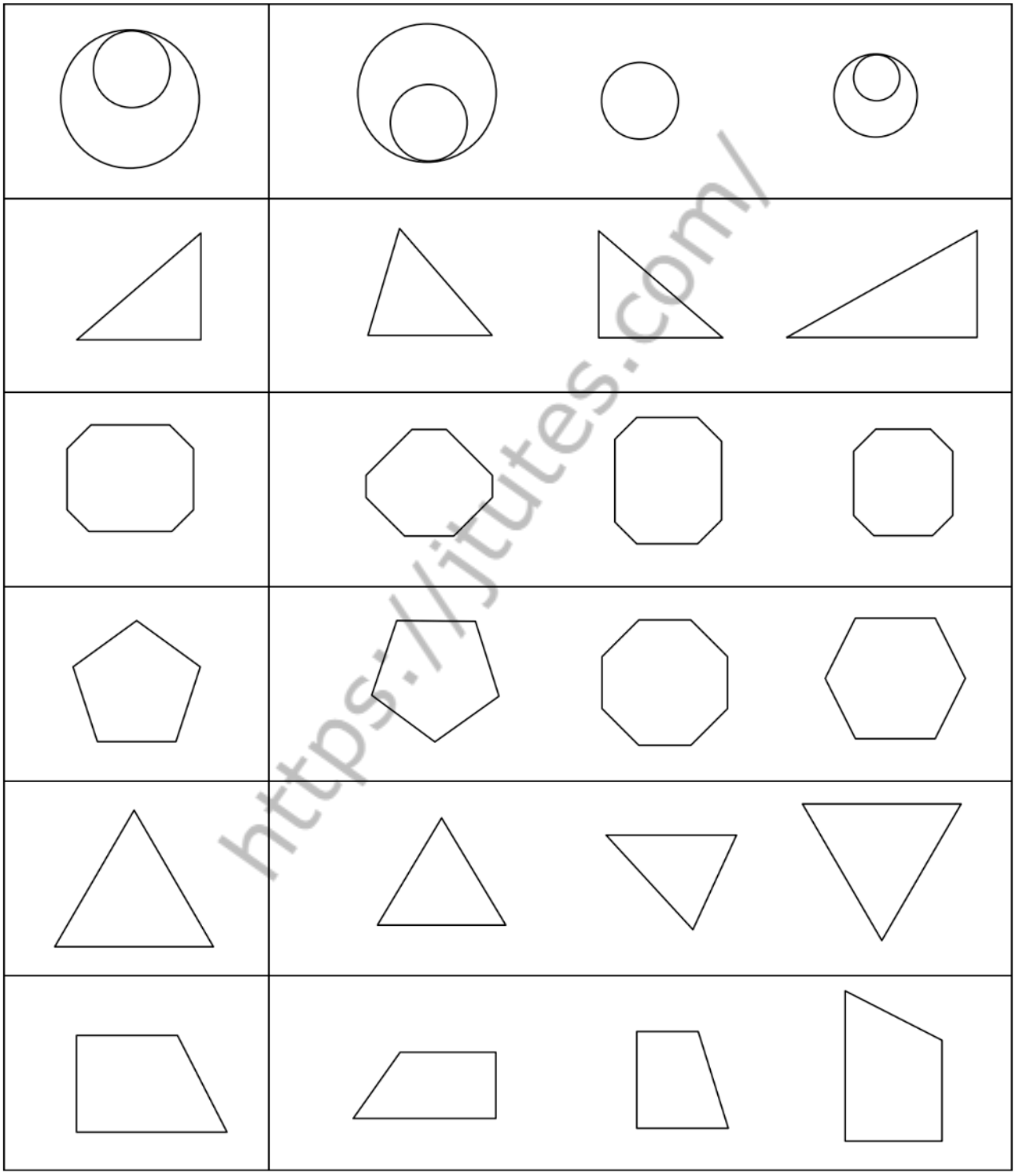
Draw the second half of each symmetrical letter.



CHAPTER 3 - SYMMETRY

CONGRUENT SHAPES

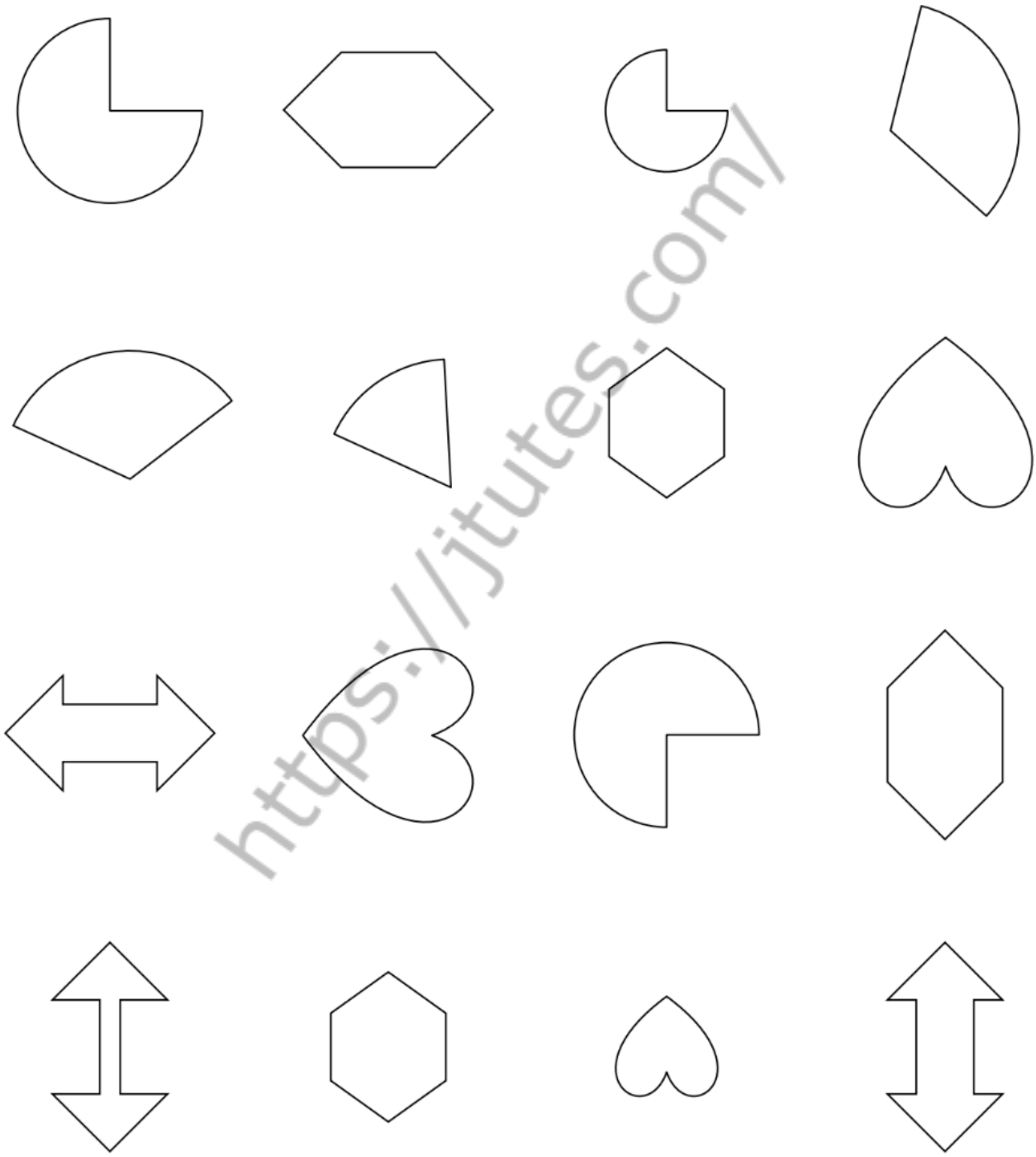
Circle the shapes on the right that are congruent to the shapes on the left.



CHAPTER 3 - SYMMETRY

MATCHING CONGRUENT SHAPES

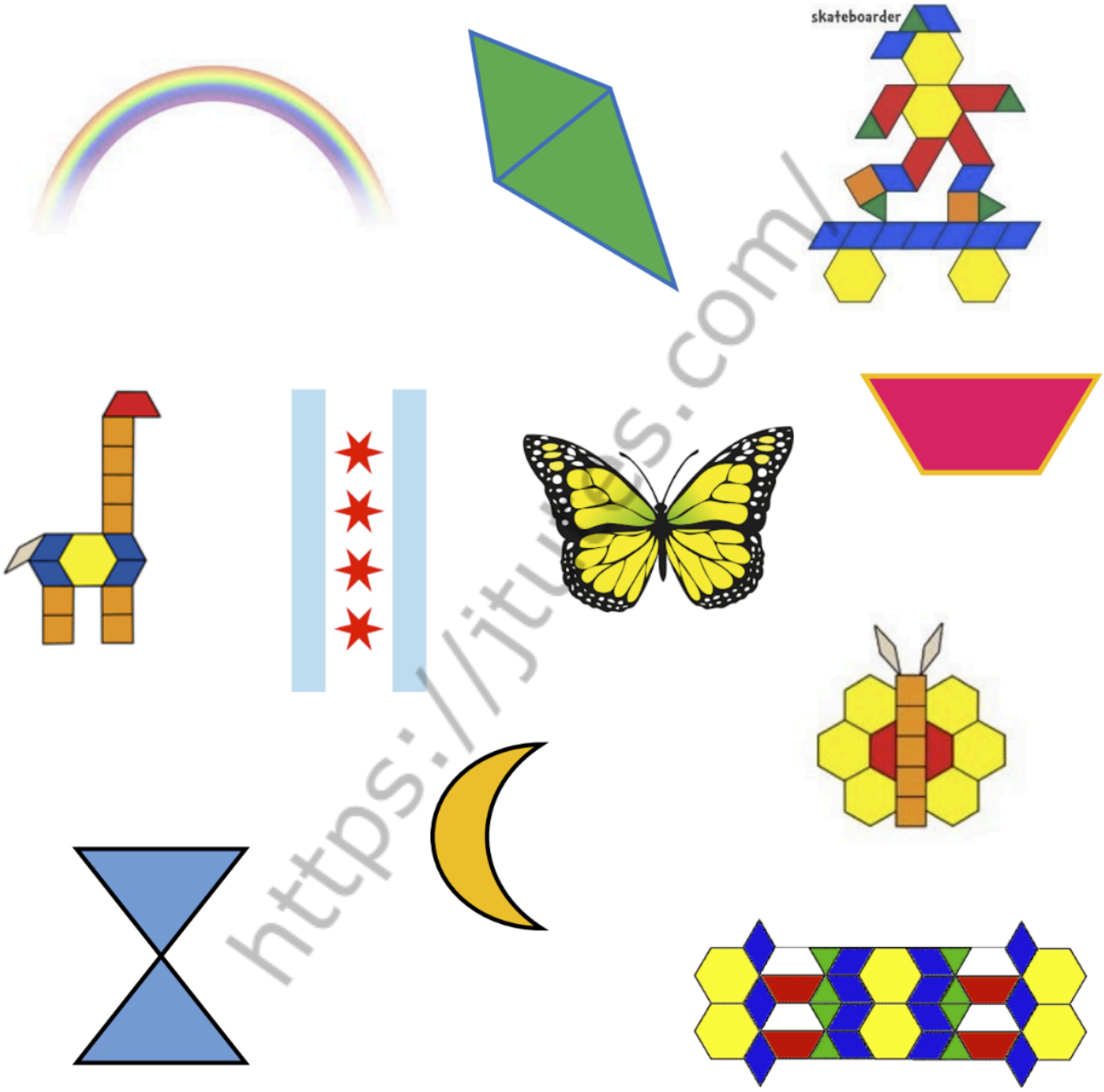
Colour the pairs of congruent shapes with the same color.



CHAPTER 3 - SYMMETRY

LINES OF SYMMETRY

Draw the line(s) of symmetry on each shape. If a shape has no lines of symmetry, draw an X through it.



CHAPTER 3 - SYMMETRY

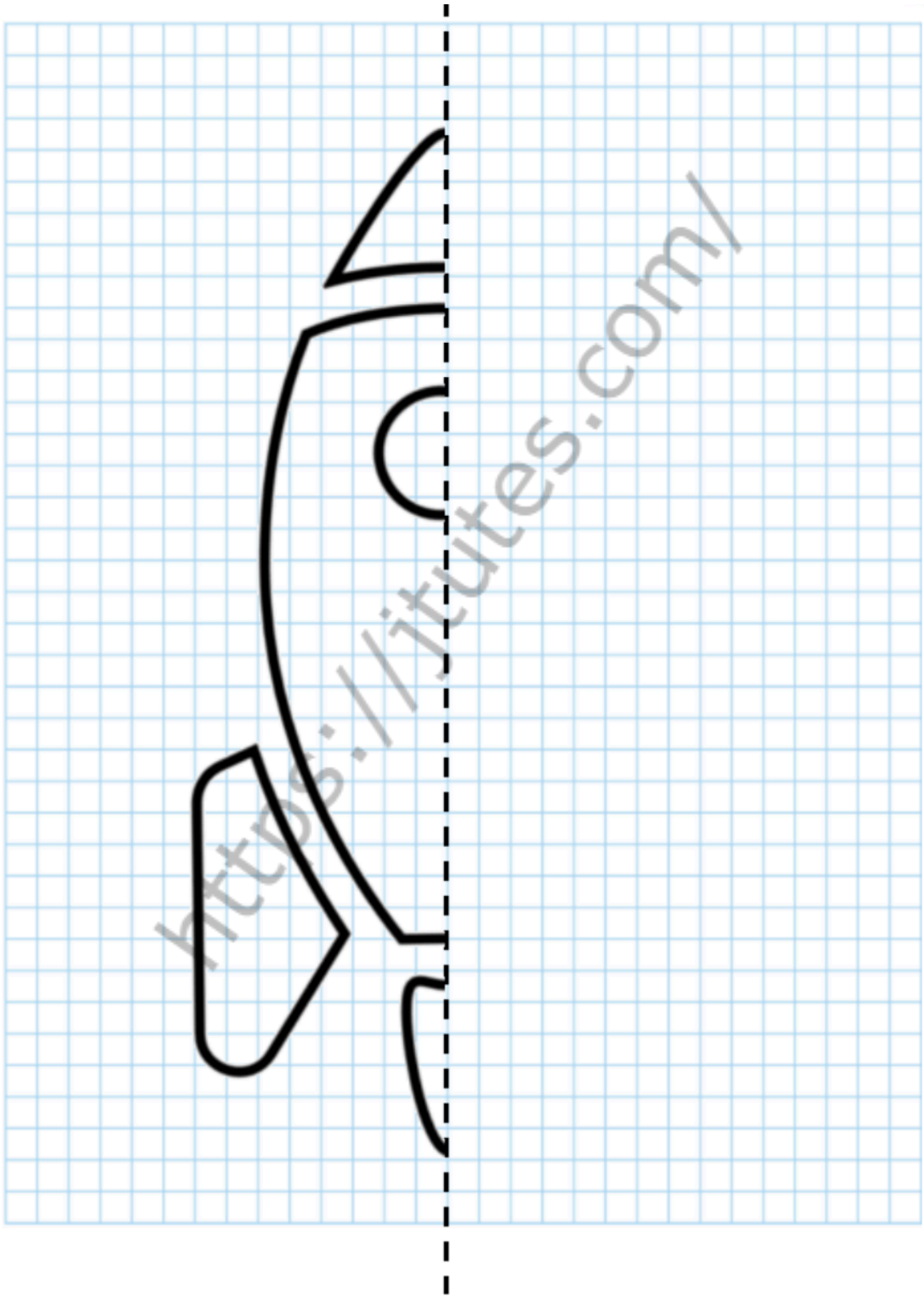
LINES OF SYMMETRY

Draw the line of symmetry which cuts the following shapes in half evenly.
Hint: Some shapes can be cut in more than one way.

CHAPTER 3 - SYMMETRY

SYMMETRY – A SYMMETRIC ROCKET

Drawing the other half of this symmetric rocket.

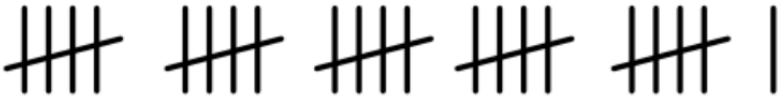


CHAPTER 4 -TALLY

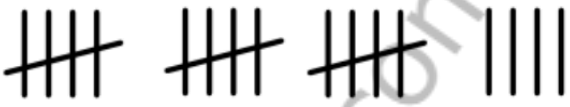
CHAPTER 4 - TALLY

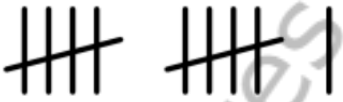
TALLY MARKS

Count the tally marks. Write the value of each set.

a. _____ 

b. _____ 

c. _____ 

d. _____ 

Draw tally marks to represent each number.

18 _____

9 _____

23 _____

15 _____

CHAPTER 4 - TALLY

PET STORE TALLY

Jose's pet store sells mice, birds, frogs, and fish. The tally chart shows how many of each kind were sold. Use the information from the tally chart to answer the questions.

Pet	Tally Marks
 Mice	𝍸 𝍸 ||
 Bird	𝍸 |||
 Frog	𝍸 𝍸 𝍸
 Fish	𝍸 𝍸 𝍸 𝍸 |

1. How many birds were sold? _____

2. Which pet sold the most? _____

3. How many pet sold in all? _____

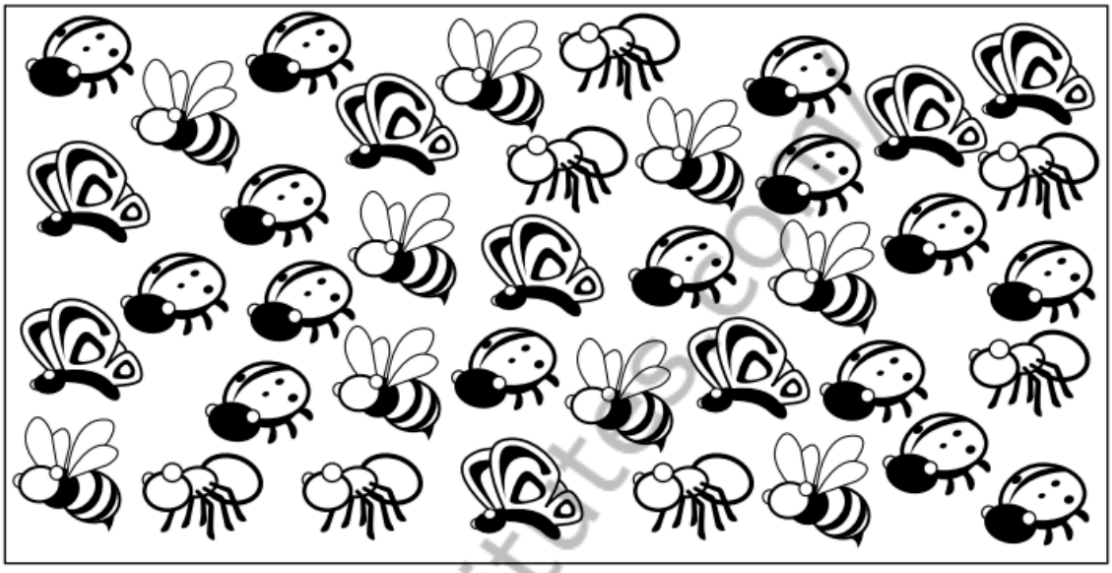
4. How many more fish were sold than frogs? _____

5. Which type of pet sold 12 times? _____

CHAPTER 4 - TALLY

BUG TALLY

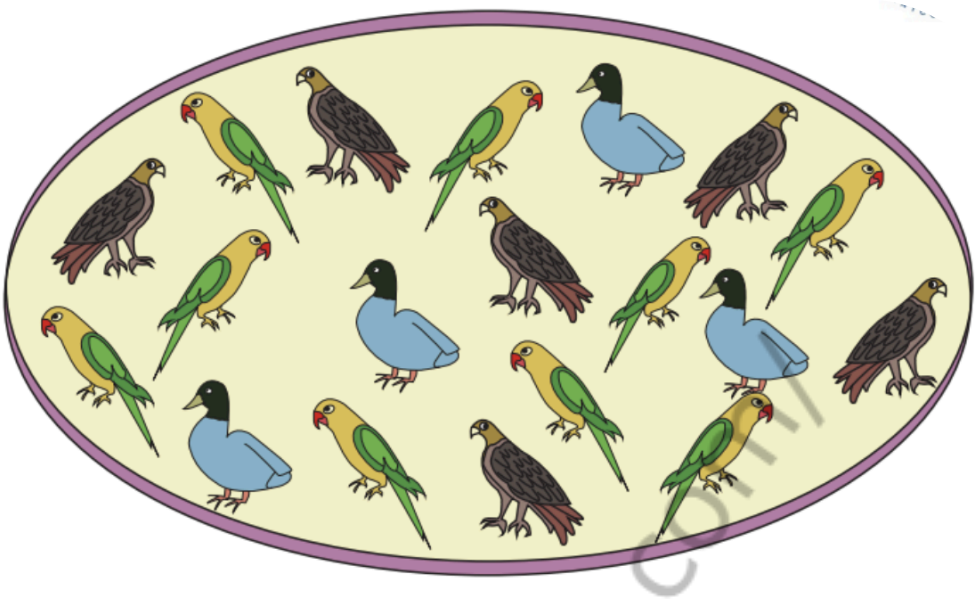
Count the bugs. As you count, cross off each bug in the picture and add a tally mark to the chart. When you're done, write the total number of each bug.



Fruit	Tally Marks	Total
Ladybug		
Butterfly		
Ant		
Bee		

CHAPTER 4 - TALLY

TALLY THE BIRDS

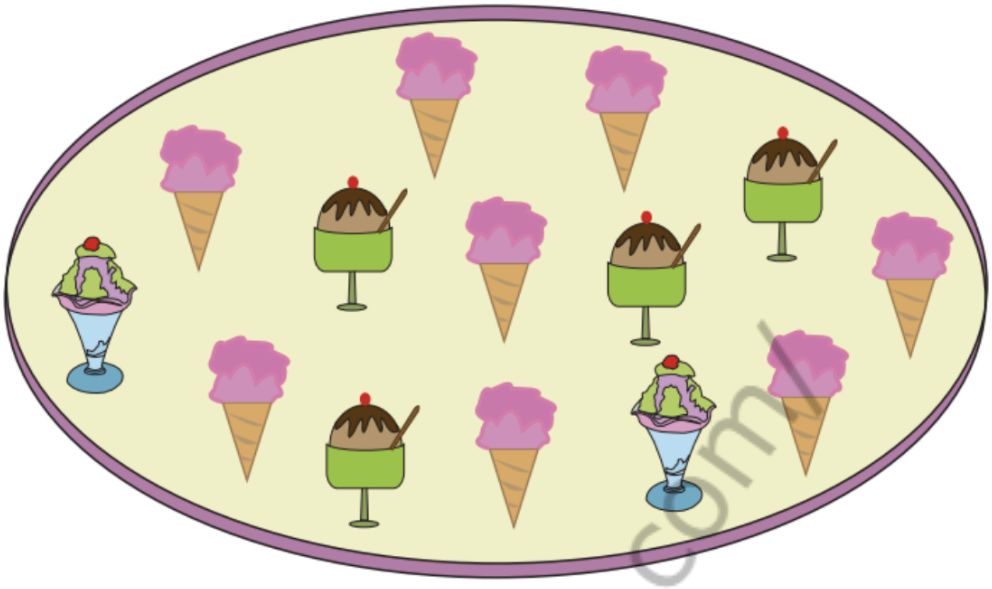


Count the birds and draw tally marks to show the count.

Birds	Tally Marks
	
	
	

CHAPTER 4 - TALLY

TALLY THE ICE-CREAMS



Count the ice-creams and draw tally marks to show the count.

Ice-creams	Tally Marks
	
	
	

CHAPTER 4 - TALLY

TALLY - BAKERY

Kayla and her friends bought some donuts, cupcakes and breads. Draw tally marks to show the number of items in each kind and answer the questions.

Bakery Items	Tally Marks
 Bread	
 Donut	
 Cupcake	

1) Which item is the fewest in number? _____

2) How many more donuts did they buy than cupcakes? _____

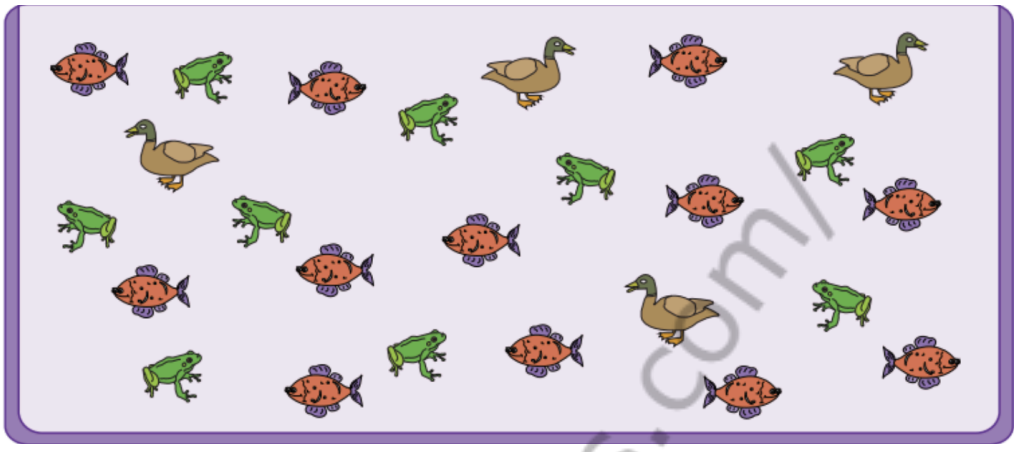
3) Which item counts more than 8? _____

4) How many items are there in all? _____

CHAPTER 4 - TALLY

TALLY - POND ANIMALS

Draw tally marks to show the number of pond animals in each kind and answer the questions.



Pond Animals	Tally Marks
 Fish	
 Duck	
 Frog	

1) How many more fish than ducks? _____

2) Which kind is the most in number? _____

3) How many fewer ducks than frogs? _____

4) How many pond animals are there? _____

CHAPTER 4 - TALLY

WEEKEND SALE

Lisa is a small-time entrepreneur; she sells burger, pizza, hot dog and fried chicken. The tally chart shows how many of each kind were sold during the weekends. Use the information from the tally chart to answer the questions.

Food Items	Tally Marks
 Burger	𝍸 𝍸 𝍸 I
 Pizza	𝍸 𝍸 𝍸 𝍸 IIII
 Fried Chicken	𝍸 𝍸 II
 Hot Dog	𝍸 III

1) How many burgers were sold? _____

2) Which item was sold the most? _____

3) How many more fried chickens were sold than hot dogs?

_____

4) Which item was sold the least? _____

5) How many items were sold in all? _____

CHAPTER 4 - TALLY

FURNITURE SHOWROOM

James visited furniture showroom and saw a tally chart with the information about availability of different kinds of furniture. Answer the questions using tally chart.

Furniture	Tally Marks
 Sofa	𝍸 IIII
 Chair	𝍸 𝍸 𝍸 II
 Cot	𝍸 I
 Table	𝍸 𝍸 IIII

1) How many sofas are there? _____

2) How many cots are there? _____

3) How many more chairs are there than tables? _____

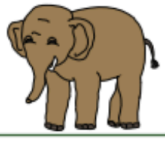
4) Which kind is the most available furniture? _____

5) How many furniture are there in total? _____

CHAPTER 4 - TALLY

TRIP TO ZOO

Mrs. Maria's class went on a field trip to the zoo. She asked the kids to vote for their favorite animal and recorded the results in a tally chart. Use the tally chart to answer the questions.

Animals	Tally Marks
 Tiger	𝍸 𝍸 𝍸
 Giraffe	𝍸 ||
 Elephant	𝍸 ||
 Deer	𝍸 𝍸 |

1) Which animal was favorite for 11 kids? _____

2) How many more kids voted for tigers than deers? _____

3) Were there animals with equal votes?
If yes, name the animals. _____

4) Which animal was most popular? _____

5) How many kids voted in all? _____

CHAPTER 5 - NAPLAN

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

CHAPTER 6 - TIME

CHAPTER 6 - TIME

Hours and Minutes

Example:
2 hours 10 minutes = minutes

1 hour = 60 minutes

2 hours = 2 x 60 minutes
= **120 minutes**

2 hours 10 minutes = **120 minutes** + 10 minutes
= **130 minutes**

Convert the following to minutes.

1) 3 hours 15 minutes = _____ minutes

2) 4 hours 23 minutes = _____ minutes

3) 9 hours 10 minutes = _____ minutes

4) 8 hours 37 minutes = _____ minutes

5) 16 hours 20 minutes = _____ minutes

6) 12 hours 55 minutes = _____ minutes

7) 7 hours 44 minutes = _____ minutes

8) 11 hours 11 minutes = _____ minutes

9) 13 hours 55 minutes = _____ minutes

10) 6 hours 22 minutes = _____ minutes

11) 14 hours 48 minutes = _____ minutes

12) 2 hours 14 minutes = _____ minutes

13) 15 hours 24 minutes = _____ minutes

14) 10 hours 19 minutes = _____ minutes

15) 4 hours 39 minutes = _____ minutes

16) 5 hours 16 minutes = _____ minutes

CHAPTER 6 - TIME

Hours and Minutes

Example:
2 hours 10 minutes = minutes

1 hour = 60 minutes

2 hours = 2 x 60 minutes
= **120 minutes**

2 hours 10 minutes = **120 minutes** + 10 minutes
= **130 minutes**

Convert the following to minutes.

1) 6 hours 38 minutes = _____ minutes

2) 9 hours 12 minutes = _____ minutes

3) 12 hours 12 minutes = _____ minutes

4) 3 hours 27 minutes = _____ minutes

5) 13 hours 20 minutes = _____ minutes

6) 16 hours 18 minutes = _____ minutes

7) 5 hours 58 minutes = _____ minutes

8) 14 hours 21 minutes = _____ minutes

9) 2 hours 37 minutes = _____ minutes

10) 11 hours 17 minutes = _____ minutes

11) 8 hours 30 minutes = _____ minutes

12) 15 hours 16 minutes = _____ minutes

13) 10 hours 29 minutes = _____ minutes

14) 4 hours 50 minutes = _____ minutes

15) 7 hours 26 minutes = _____ minutes

16) 2 hours 33 minutes = _____ minutes

CHAPTER 6 - TIME

Hours and Minutes

Example:
2 hours 10 minutes = minutes

1 hour = 60 minutes

2 hours = 2 x 60 minutes
= **120 minutes**

2 hours 10 minutes = **120 minutes** + 10 minutes
= **130 minutes**

Convert the following to minutes.

1) 4 hours 32 minutes = _____ minutes

2) 11 hours 22 minutes = _____ minutes

3) 9 hours 54 minutes = _____ minutes

4) 14 hours 16 minutes = _____ minutes

5) 12 hours 35 minutes = _____ minutes

6) 15 hours 12 minutes = _____ minutes

7) 2 hours 42 minutes = _____ minutes

8) 16 hours 10 minutes = _____ minutes

9) 7 hours 11 minutes = _____ minutes

10) 13 hours 47 minutes = _____ minutes

11) 3 hours 49 minutes = _____ minutes

12) 10 hours 12 minutes = _____ minutes

13) 6 hours 53 minutes = _____ minutes

14) 8 hours 31 minutes = _____ minutes

15) 9 hours 17 minutes = _____ minutes

16) 5 hours 18 minutes = _____ minutes

CHAPTER 6 - TIME

Minutes and Seconds

Example:
10 minutes = _____ seconds

1 minutes = 60 seconds

10 minutes = 10 x 60 seconds
= **600 seconds**

Convert the following minutes to seconds	Work space
1) 2 minutes = _____ seconds	
2) 6 minutes = _____ seconds	
3) 12 minutes = _____ seconds	
4) 9 minutes = _____ seconds	
5) 15 minutes = _____ seconds	
6) 4 minutes = _____ seconds	
7) 8 minutes = _____ seconds	
8) 11 minutes = _____ seconds	
9) 16 minutes = _____ seconds	
10) 7 minutes = _____ seconds	

CHAPTER 6 - TIME

Minutes and Seconds

Example:
10 minutes = _____ seconds

1 minutes = 60 seconds

10 minutes = 10 x 60 seconds
= **600 seconds**

Convert the following minutes to seconds	Work space
1) 8 minutes = _____ seconds	
2) 5 minutes = _____ seconds	
3) 11 minutes = _____ seconds	
4) 7 minutes = _____ seconds	
5) 3 minutes = _____ seconds	
6) 9 minutes = _____ seconds	
7) 12 minutes = _____ seconds	
8) 14 minutes = _____ seconds	
9) 2 minutes = _____ seconds	
10) 13 minutes = _____ seconds	

CHAPTER 6 - TIME

Minutes and Seconds

Example:
10 minutes = _____ seconds

1 minutes = 60 seconds

10 minutes = 10 x 60 seconds
= **600 seconds**

Convert the following minutes to seconds	Work space
1) 11 minutes = _____ seconds	
2) 13 minutes = _____ seconds	
3) 4 minutes = _____ seconds	
4) 2 minutes = _____ seconds	
5) 8 minutes = _____ seconds	
6) 6 minutes = _____ seconds	
7) 15 minutes = _____ seconds	
8) 3 minutes = _____ seconds	
9) 7 minutes = _____ seconds	
10) 14 minutes = _____ seconds	

CHAPTER 7 - TIME

CHAPTER 7 - TIME

Reading Calendar

September 2002

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

1) What is the date 2 weeks and 4 days before September 26?

_____

2) Oliver's birthday is exactly two weeks before Tim's birthday. If Tim's birthday is on the 19th, when is Oliver's birthday?

_____

3) This September month ends on a Monday. On what day of the week will the next month begin?

_____

4) Mark visits his son Eric, who is in the boarding school on alternate Fridays. When will Mark visit him again after 6th September?

_____

5) How many Mondays have even dates and how many Tuesdays have odd dates?

_____

CHAPTER 7 - TIME

Reading Calendar

May 2007

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2 Full moon	3	4	5
6	7	8	9	10 Third quarter	11	12
13	14	15	16 New moon	17	18	19
20	21	22	23 First quarter	24	25	26
27	28	29	30	31 Full moon		

1) Full moon appears twice in this May month. What are the dates of the full moon days?

_____

2) How many days are there in between the two full moon days?

_____

3) The moon becomes third quarter on the eighth day after the full moon day. When does the third Quarter appear?

_____

4) The new moon day is on the 16th May. On what day of the week does it appear?

_____

5) The first quarter moon appears exactly seven days after the new moon. When does the first quarter moon appear?

_____

CHAPTER 7 - TIME

START TIME: NEAREST HALF-HOUR

Find the start time for each problem.

Q.No	Start Time	End Time	Elapsed Time
1)		10:30 A.M.	7 hours
2)		8:30 P.M.	3 hours and 30 minutes
3)		11:00 A.M.	8 hours
4)		6:30 P.M.	4 hours
5)		9:30 A.M.	2 hours
6)		5:30 P.M.	4 hours and 30 minutes
7)		10:30 A.M.	8 hours and 30 minutes
8)		7:30 P.M.	2 hours
9)		4:30 A.M.	3 hours
10)		1:30 A.M.	1 hour and 30 minutes
11)		11:00 P.M.	3 hours
12)		11:30 A.M.	2 hours
13)		9:30 P.M.	6 hours
14)		7:30 A.M.	3 hours and 30 minutes
15)		8:30 P.M.	1 hour and 30 minutes

CHAPTER 7 - TIME

START TIME: NEAREST HALF-HOUR

Find the start time for each problem.

Q.No	Start Time	End Time	Elapsed Time
1)		8:30 A.M.	7 hours and 30 minutes
2)		11:30 P.M.	3 hours
3)		10:30 A.M.	5 hours and 30 minutes
4)		6:30 P.M.	3 hours
5)		8:00 A.M.	5 hours
6)		9:30 P.M.	2 hours and 30 minutes
7)		7:30 A.M.	5 hours
8)		10:30 P.M.	9 hours
9)		8:30 A.M.	2 hours
10)		11:30 A.M.	3 hours and 30 minutes
11)		7:30 P.M.	4 hours
12)		5:30 A.M.	3 hours and 30 minutes
13)		6:30 A.M.	1 hour
14)		10:30 A.M.	8 hours
15)		6:30 P.M.	3 hours and 30 minutes

CHAPTER 7 - TIME

START TIME: NEAREST HALF-HOUR

Find the start time for each problem.

Q.No	Start Time	End Time	Elapsed Time
1)		8:30 P.M.	13 hours and 30 minutes
2)		9:30 A.M.	16 hours
3)		4:30 P.M.	5 hours and 30 minutes
4)		1:30 A.M.	11 hours
5)		5:30 A.M.	9 hours and 30 minutes
6)		2:30 P.M.	8 hours
7)		12:30 A.M.	2 hours
8)		1:00 P.M.	7 hours
9)		6:30 A.M.	14 hours
10)		4:30 P.M.	9 hours
11)		2:30 A.M.	12 hours and 30 minutes
12)		5:30 P.M.	8 hours
13)		7:30 P.M.	14 hours and 30 minutes
14)		12:30 A.M.	11 hours
15)		3:00 P.M.	6 hours

CHAPTER 7 - TIME

START TIME: NEAREST HALF-HOUR

Find the start time for each problem.

Q.No	Start Time	End Time	Elapsed Time
1)		11:30 P.M.	17 hours
2)		3:30 P.M.	10 hours
3)		4:00 A.M.	8 hours
4)		5:00 P.M.	15 hours
5)		4:30 A.M.	8 hours
6)		1:30 P.M.	9 hours
7)		7:30 P.M.	10 hours and 30 minutes
8)		8:30 A.M.	18 hours
9)		9:30 A.M.	20 hours and 30 minutes
10)		6:30 P.M.	15 hours
11)		11:30 P.M.	13 hours and 30 minutes
12)		7:30 A.M.	18 hours
13)		5:30 P.M.	11 hours and 30 minutes
14)		2:30 P.M.	7 hours and 30 minutes
15)		2:30 A.M.	3 hours

CHAPTER 8 - TIME

CHAPTER 8 - TIME

FAST & SLOW CLOCKS

Example : The time shown on the clock is 11 minutes slow.

Correct time : **1:41**

The time shown on each clock is 12 minutes slow. Write the correct time.

1)

Correct time : _____

2)

Correct time : _____

3)

Correct time : _____

The time shown on each clock is 36 minutes fast. Write the correct time.

4)

Correct time : _____

5)

Correct time : _____

6)

Correct time : _____

The time shown on each clock is 55 minutes slow. Write the correct time.

7)

Correct time : _____

8)

Correct time : _____

9)

Correct time : _____

The time shown on each clock is 21 minutes fast. Write the correct time.

10)

Correct time : _____

11)

Correct time : _____

12)

Correct time : _____

CHAPTER 8 - TIME

FAST & SLOW CLOCKS

Example : The time shown on the clock is 11 minutes slow.

Correct time : **1:41**

The time shown on each clock is 37 minutes fast. Write the correct time.

1)

Correct time : _____

2)

Correct time : _____

3)

Correct time : _____

The time shown on each clock is 12 minutes slow. Write the correct time.

4)

Correct time : _____

5)

Correct time : _____

6)

Correct time : _____

The time shown on each clock is 20 minutes fast. Write the correct time.

7)

Correct time : _____

8)

Correct time : _____

9)

Correct time : _____

The time shown on each clock is 51 minutes slow. Write the correct time.

10)

Correct time : _____

11)

Correct time : _____

12)

Correct time : _____

CHAPTER 8 - TIME

FAST & SLOW CLOCKS

Example : The time shown on the clock is 11 minutes slow.

Correct time : **1:41**

The time shown on each clock is 17 minutes slow. Write the correct time.

1)

Correct time : _____

2)

Correct time : _____

3)

Correct time : _____

The time shown on each clock is 25 minutes fast. Write the correct time.

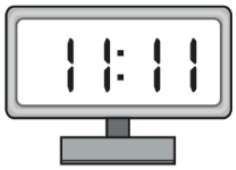
4)

Correct time : _____

5)

Correct time : _____

6)



Correct time : _____

The time shown on each clock is 48 minutes slow. Write the correct time.

7)

Correct time : _____

8)

Correct time : _____

9)

Correct time : _____

The time shown on each clock is 9 minutes fast. Write the correct time.

10)

Correct time : _____

11)

Correct time : _____

12)

Correct time : _____

CHAPTER 8 - TIME

Days and Hours

Example :

6 days = _____ hours

1 day = 24 hours

6 days = 6 x 24 hours

= **144** hours

Convert the following days to hours	Work space
1) 3 days = _____ hours	
2) 9 days = _____ hours	
3) 11 days = _____ hours	
4) 7½ days = _____ hours	
5) 4 days = _____ hours	
6) 10 days = _____ hours	
7) 2 days = _____ hours	
8) 5½ days = _____ hours	
9) 8 days = _____ hours	
10) 12 days = _____ hours	

CHAPTER 8 - TIME

Days and Hours

Example :

6 days = _____ hours

1 day = 24 hours

6 days = 6 x 24 hours

= **144** hours

Convert the following days to hours	Work space
1) 14 days = _____ hours	
2) 8 days = _____ hours	
3) 4 days = _____ hours	
4) 13½ days = _____ hours	
5) 2 days = _____ hours	
6) 7 days = _____ hours	
7) 9½ days = _____ hours	
8) 15 days = _____ hours	
9) 3 days = _____ hours	
10) 5 days = _____ hours	

CHAPTER 8 - TIME

Days and Hours

Example :

6 days = _____ hours

1 day = 24 hours

6 days = 6 x 24 hours

= **144** hours

Convert the following days to hours	Work space
1) 15 days = _____ hours	
2) 10½ days = _____ hours	
3) 5 days = _____ hours	
4) 12 days = _____ hours	
5) 3 days = _____ hours	
6) 14 days = _____ hours	
7) 2½ days = _____ hours	
8) 4 days = _____ hours	
9) 11 days = _____ hours	
10) 8 days = _____ hours	

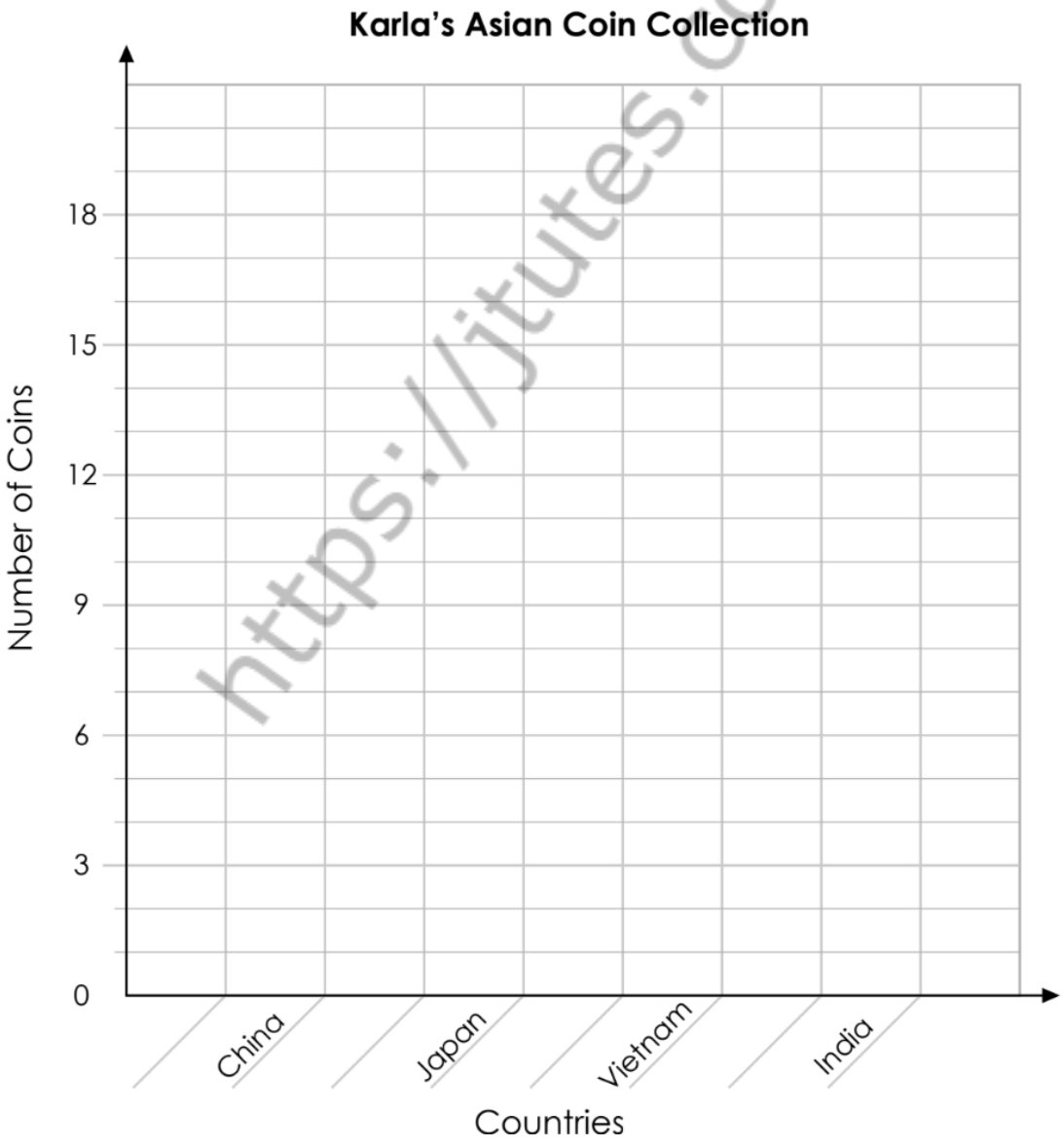
CHAPTER 9 - GRAPHS

CHAPTER 9 - GRAPHS

Bar Graph of Coins

Karla collects coins from Asian countries. The table below shows how many coins she has collected from four different countries. Use the information in the table to complete the graph.

China	13
Japan	15
Vietnam	4
India	10



CHAPTER 9 - GRAPHS

Bar Graph of Coins

Use the bar graph you made to answer the questions.

1. How many more coins does Karla have from China than Vietnam?
   _____

2. How many fewer coins does Karla have from India than Japan?
   _____

3. How many total coins does Karla have from these four countries?
   _____

4. What is on the x-axis of this graph? _____

5. What is on the y-axis of this graph? _____

6. Karla's grandmother sends her seven more coins from China. How many Chinese coins does she have now? _____

7. Karla's older sister sent her 23 more coins from Vietnam. How many Vietnamese coins does she have now? _____

8. Karla traded coins with her friend Patty. She gave Patty three of her Indian coins and Patty gave Karla two more Japanese coins.

   How many Indian coins does Karla have now? _____

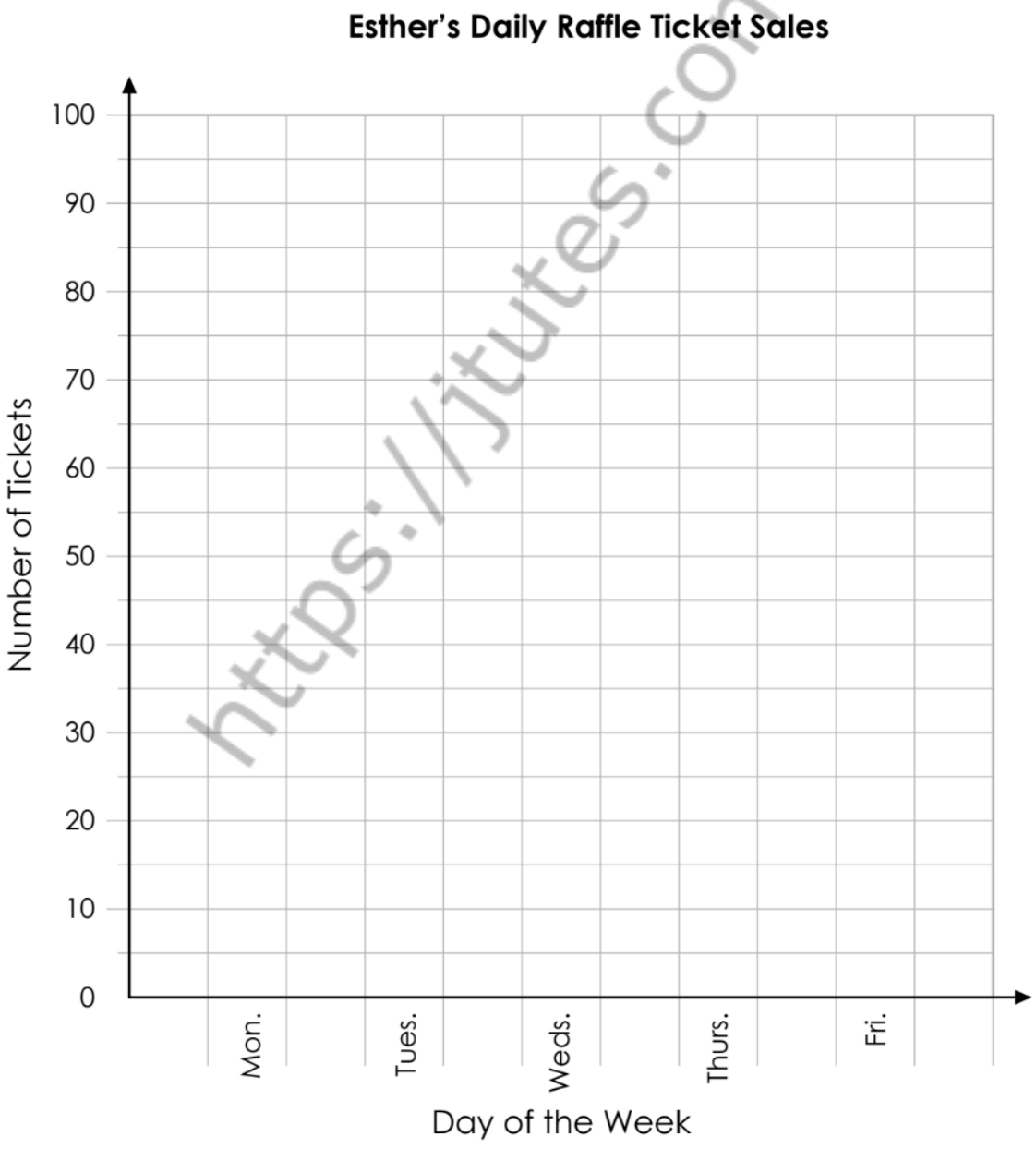
   How many Japanese coins does Karla have now? _____

CHAPTER 9 - GRAPHS

Bar Graph of Ticket Sales

Esther's school sold raffle tickets last week. The table below shows the number of tickets sold each day. Use the information in the table to complete the graph.

Mon.	Tues.	Weds.	Thurs.	Fri.
55	40	25	35	80



CHAPTER 9 - GRAPHS

Bar Graph of Ticket Sales

Use the bar graph you made to answer the questions.

1. How many tickets were sold on Monday? _____

2. How many tickets were sold on Thursday? _____

3. On which day were the most tickets sold? _____

4. On which day were the fewest tickets sold? _____

5. What is on the y-axis of this graph? _____

6. What is on the x-axis of this graph? _____

7. How many tickets were sold after Tuesday? _____

8. How many tickets were sold before Thursday? _____

9. During which two day period were 115 tickets sold?
_____

10. How many fewer tickets were sold on Wednesday than Thursday?
_____

CHAPTER 9 - GRAPHS

Popcorn Sales Pictograph

Four Boy Scouts sold popcorn for one month. The list below shows how much money was collected by each Boy Scout.

John - $75 **Logan - $30**
Carter - $60 **Andrew - $45**

Use the information from the list to complete the pictograph below and answer the questions.

Name	Money Collected
John	
Carter	
Logan	
Andrew	

KEY
Each $ = 5 dollars

1. How much money did the boys collect in all? _____

2. How much more money did Carter collect than Andrew? _____

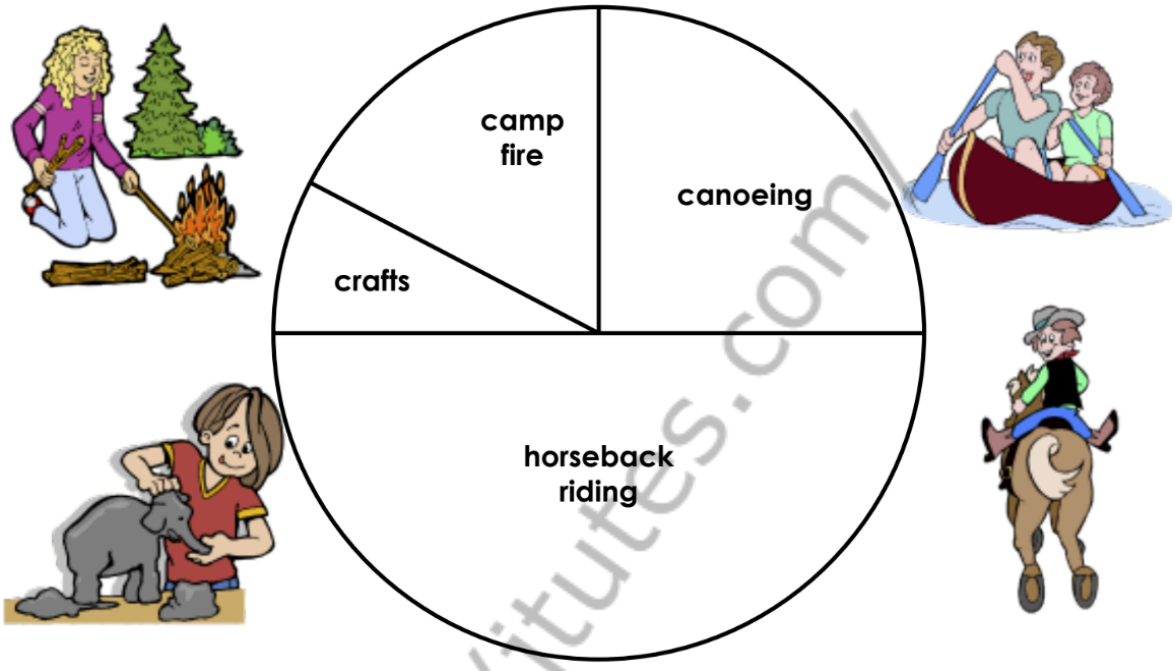
3. Which two boys sold a total of $120 of popcorn? _____

4. Who sold more popcorn than Logan, but less than Carter? _____

CHAPTER 9 - GRAPHS

Summer Camp Activites

A group of kids spent a week at Big Tree Summer Camp. At the end of the week, the counselors asked campers what their favorite part of camp was. The pie graph shows their responses.



1. What activity did campers enjoy the most? _____

2. What fraction of the campers chose canoeing as their favorite activity? _____

3. What fraction of the campers chose horseback riding as their favorite activity? _____

4. Did more campers choose camp res or crafts as their favorite activity?\ _____

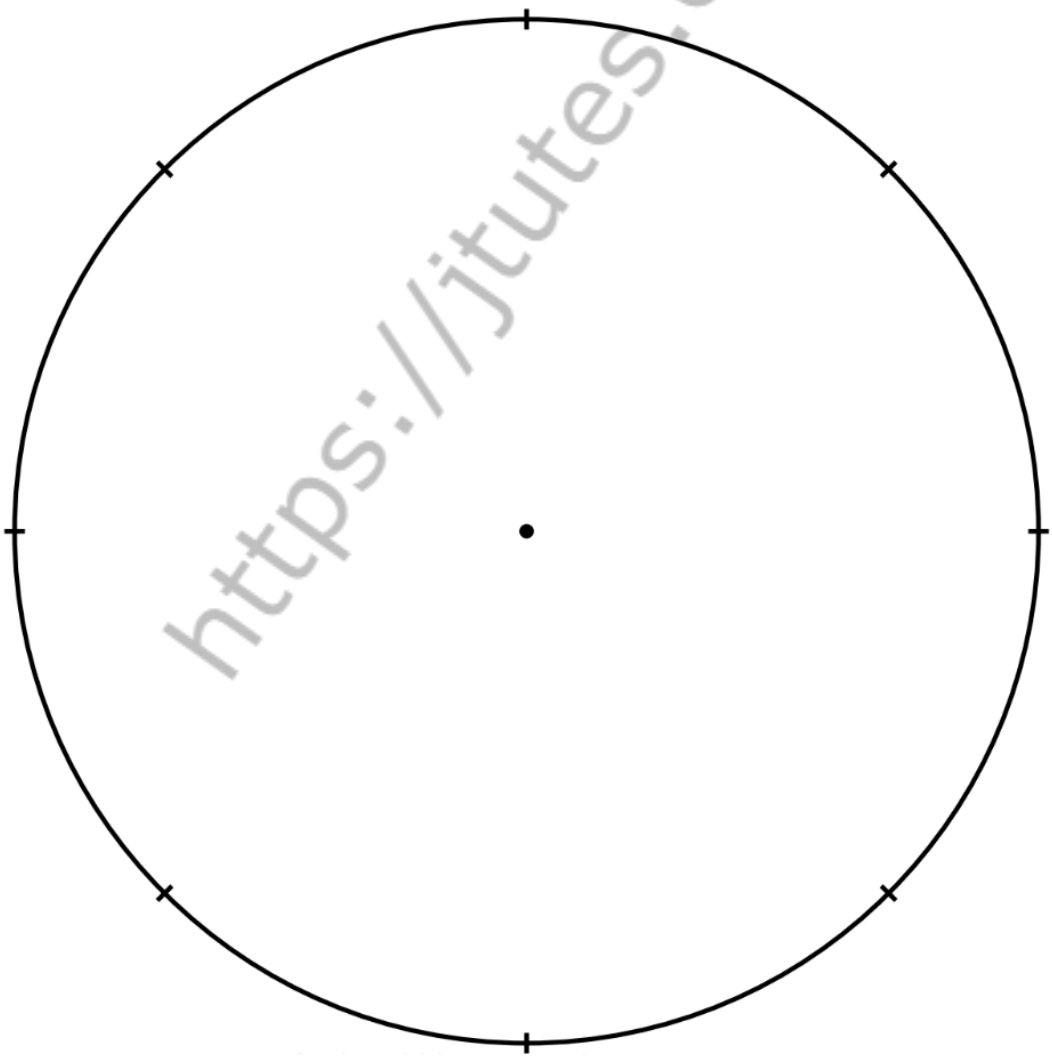
5. Was camp re or canoeing more popular with the campers? _____

CHAPTER 9 - GRAPHS

Favorite Sports Graph

Patty surveyed her friends to find out their favorite sports. The table shows the results. Make a circle graph using the information in the table.

football	𝍸 𝍸
baseball	𝍸
tennis	𝍸
basketball	𝍸 𝍸 𝍸 𝍸
hockey	𝍸



CHAPTER 9 - GRAPHS

Favorite Sports Graph

Use the circle graph you made to answer the questions.

1. What fraction of Patty's friends said football was their favorite sport?

_____

2. What fraction said hockey was their favorite sport?

_____

3. How many more people chose basketball than tennis?

_____

4. About one half of Patty's friends chose which sport?

_____

5. About one quarter of Patty's friends chose which sport?

_____

6. What fraction of Patty's friends chose baseball or tennis?

_____

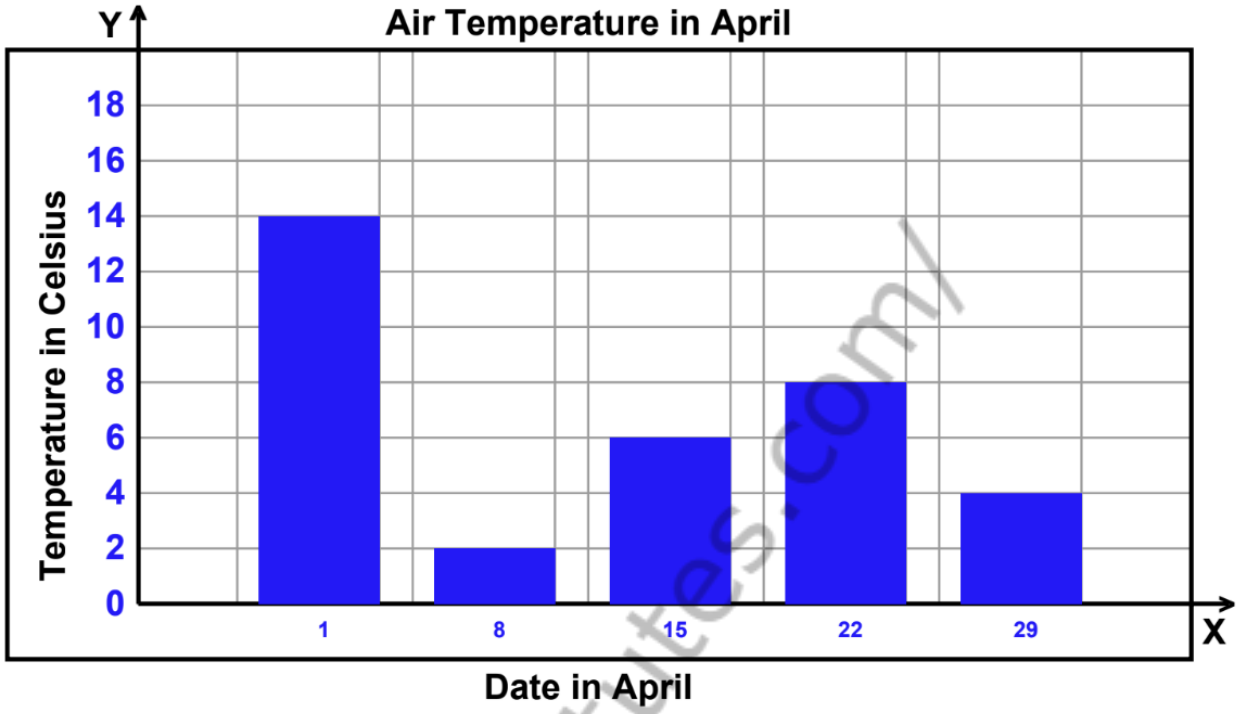
7. What fraction of Patty's friends chose football or basketball?

_____

CHAPTER 9 - GRAPHS

READING BAR GRAPHS

Answer the following questions based off the bar graph.



What was the air temperature on 8? _____

What was the air temperature on 1? _____

Did the temperature increase or decrease between April 15 and April 22? _____

Was the temperature higher on 29 or 15? _____

On what date was the temperature at the highest? _____

CHAPTER 10 - PICTOGRAPHS

CHAPTER 10 - PICTOGRAPHS

Birdwatching Pictograph

Pat, Jim, Linda, and Paul went on a bird watching walk.
The pictograph below shows how many birds each person saw.

Birdwatching Trip

Name	Number of Birds Seen
Pat	
Jim	
Linda	
Paul	

Each  represents 2 birds

1. **How many birds did Pat see?** 1. _____
2. **How many birds did Jim see?** 2. _____
3. **How many birds did Paul see?** 3. _____
4. **How many more birds did Paul see than Linda?** 4. _____
5. **How many birds did Jim and Pat see together?** 5. _____
6. **Did Jim see an odd or even number of birds?** 6. _____
7. **Who saw eleven birds?** 7. _____
8. **If Jim had seen three more birds, how many symbols would be next to his name on the pictograph?** 8. _____
9. **Who saw fewer birds: Jim or Paul?** 9. _____
10. **Did Linda see more or less than a dozen birds?** 10. _____
11. **Tell how you would show 4 birds on the pictograph?**

    11. _____

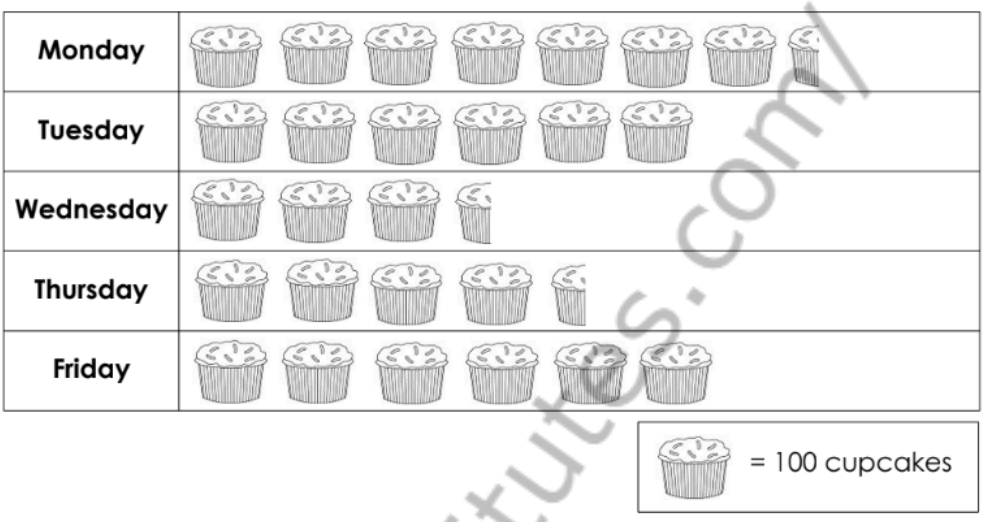
12. **What is the total number of birds seen by the 4 people?** 12. _____

CHAPTER 10 - PICTOGRAPHS

The Cupcake Bakery

The Cupcake Bakery makes cupcakes and ships them off to supermarkets across the country. The pictograph below shows how many cupcakes they bake each day. Use the information from the graph to answer the questions.

Number of Cupcakes Baked



1. How many cupcakes were baked on Monday? 1. _____
2. Were more cupcakes baked on Monday or Friday? 2. _____
3. On which day were the fewest cupcakes baked? 3. _____
4. How many cupcakes were baked on Tuesday and Wednesday combined? 4. _____
5. How many more cupcakes were baked on Tuesday than Thursday? 5. _____
6. How many more cupcakes were baked on Friday than Wednesday? 6. _____
7. The Cupcake Bakery only makes two kinds of cupcakes: chocolate and white. On Friday, they baked 200 white cupcakes. How many chocolate cupcakes did they bake? 7. _____
8. On Wednesday, the bakery made 100 chocolate cupcakes. How many white cupcakes did they make? 8. _____

CHAPTER 10 - PICTOGRAPHS

Fishing Trip Pictograph

Michael, Emily, Jose, Jennifer, and Kevin went on a fishing trip. The pictograph below shows how many fish each caught. Use the pictograph to answer the questions.

Number of Fish Caught

Michael	
Emily	
Jose	
Jennifer	
Kevin	

 = 6 fish

1. How many fish did Michael catch? **1.** _____

2. How many fish did Emily catch? **2.** _____

3. How many fish did Kevin catch? **3.** _____

4. How many more fish did Emily catch than Jose? **4.** _____

5. How many fish did the girls catch? **5.** _____

6. How many fish did boys catch? **6.** _____

7. How many more fish did the girls catch than the boys? **7.** _____

8. How many fish did Jose and Kevin catch? **8.** _____

9. Find the sum of the fish caught by all five people? **9.** _____

10. Who caught fewer fish, Jennifer or Emily? **10.** _____

11. Did Jennifer catch an odd or even number of fish? **11.** _____

12. Jose said, "I caught a dozen fish!" Is he correct? Explain. **12.** _____

_____

CHAPTER 10 - PICTOGRAPHS

Lemonade Stand Picture Graph

Doreen was having a lemonade stand in her front yard.
The picture graph below shows how much she earned.

Lemonade Stand Profits

Day	*Money Earned*
Friday	$ $ $ $ $
Saturday	$ $ $ $ $ $ $
Sunday	$ $ $
Monday	$ $

$ = five dollars

1. **How much money did Doreen earn on Friday?** 1. _____
2. **How much did she earn on Sunday?** 2. _____
3. **How much money did she earn on Saturday and Sunday?** 3. _____
4. **How much more did Doreen earn on Saturday than Friday?** 4. _____
5. **On which day did Doreen earn the least money?** 5. _____
6. **Which day did Doreen earn the most money?** 6. _____
7. **How much more did Doreen earn on Saturday than Monday?** 7. _____

CHAPTER 10 - PICTOGRAPHS

The Pumpkin Carving Contest

Monica, Wayne, Kiersten, and Derrick were in a pumpkin carving contest.
There was a prize for the person who carved the most pumpkins.

Number of Pumpkins Carved

Monica	6
Wayne	7½
Kiersten	5
Derrick	8½

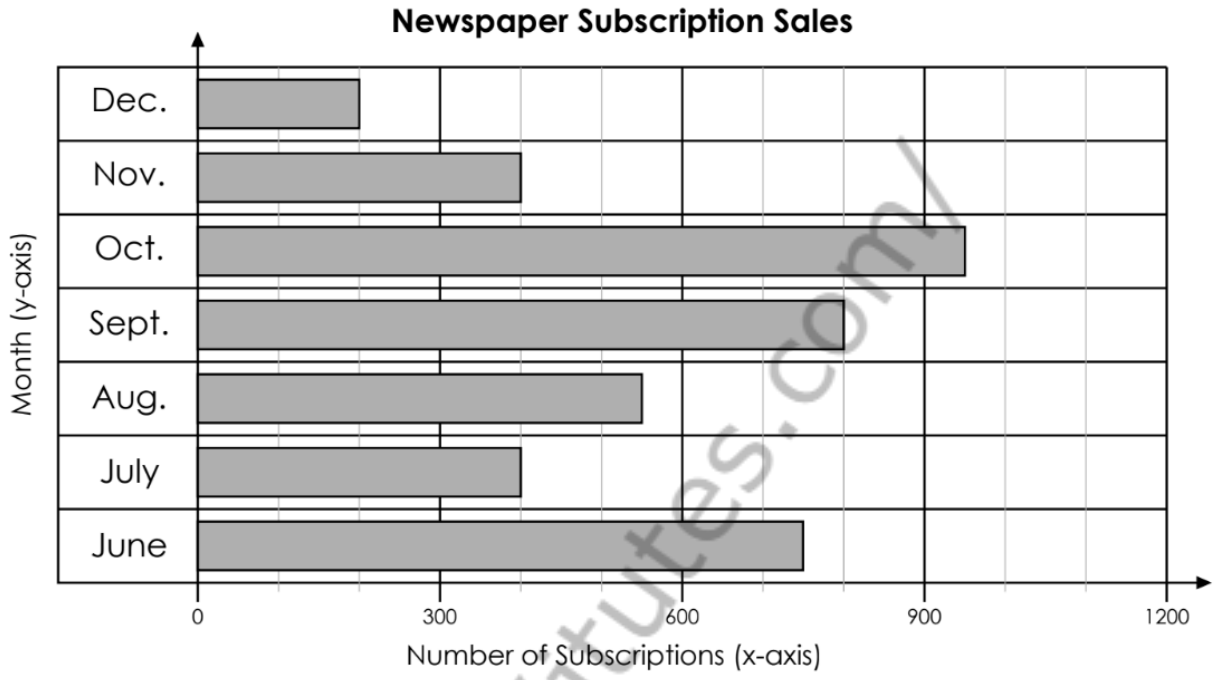
= 4 pumpkins

1. How many pumpkins did Monica carve? 1. _____
2. How many pumpkins did Wayne carve? 2. _____
3. How many pumpkins did Kiersten carve? 3. _____
4. How many pumpkins did Derrick carve? 4. _____
5. How many more pumpkins did Derrick carve than Kiersten? 5. _____
6. How many pumpkins did Monica and Wayne carve in all? 6. _____
7. Which person carved the greatest number of pumpkins? 7. _____
8. Which person carved the least number of pumpkins? 8. _____
9. If Kiersten carved 4 more pumpkins, how many pumpkins would she have carved in all? 9. _____
10. If Monica had carved 6 fewer pumpkins, how many would she have carved? 10. _____
11. How many more pumpkins did Wayne carve than Monica? 11. _____
12. How many pumpkins did the 4 contestants carve altogether? 12. _____

CHAPTER 10 - PICTOGRAPHS

Newspaper Bar Graph

The local newspaper keeps track of how many subscriptions are sold each month.
Use the graph below to answer the questions.



1. How many newspaper subscriptions were sold in October? 1. _____

2. How many more newspaper subscriptions were sold in November than December? 2. _____
(Show your work in the space below.)

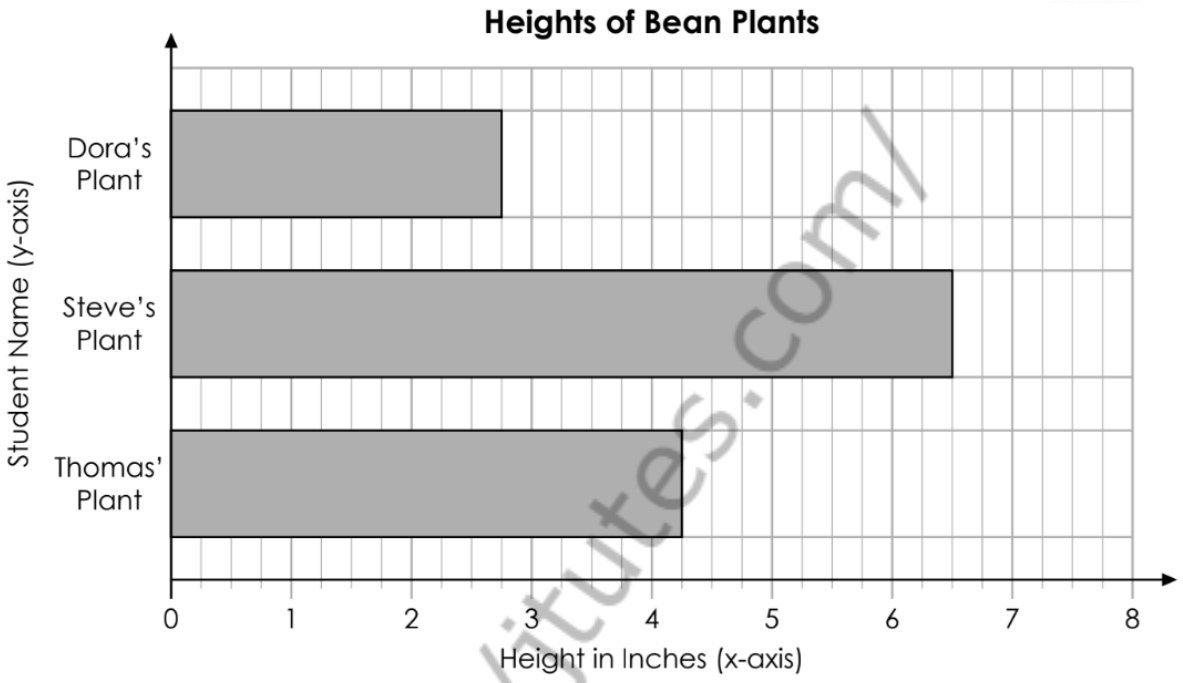
3. Were more newspaper subscriptions sold in October, November, and December, or in July, August, and September? 3. _____
(Show your work in the space below.)

4. In April, the newspaper sold 100 fewer subscriptions than they did in June. How many supscriptions did they sell in April? 4. _____

CHAPTER 10 - PICTOGRAPHS

Bean Plant Bar Graph

The students in Mr. Suess' class planted lima bean seeds. After two weeks, the students measured the height of their bean plants and graphed the results.



1. Write the height of each student's plant at the end of each bar.

2. How much taller did Thomas' plant grow than Dora's? 2. _____

3. How much shorter is Thomas' plant than Steve's? 3. _____

4. If Steve's plant had only grown half as tall, what would its height be? 4. _____

5. Thomas said to Dora, "My plant is twice as tall as yours." Is he correct? Explain. 5. _____

CHAPTER 11 - ICAS

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