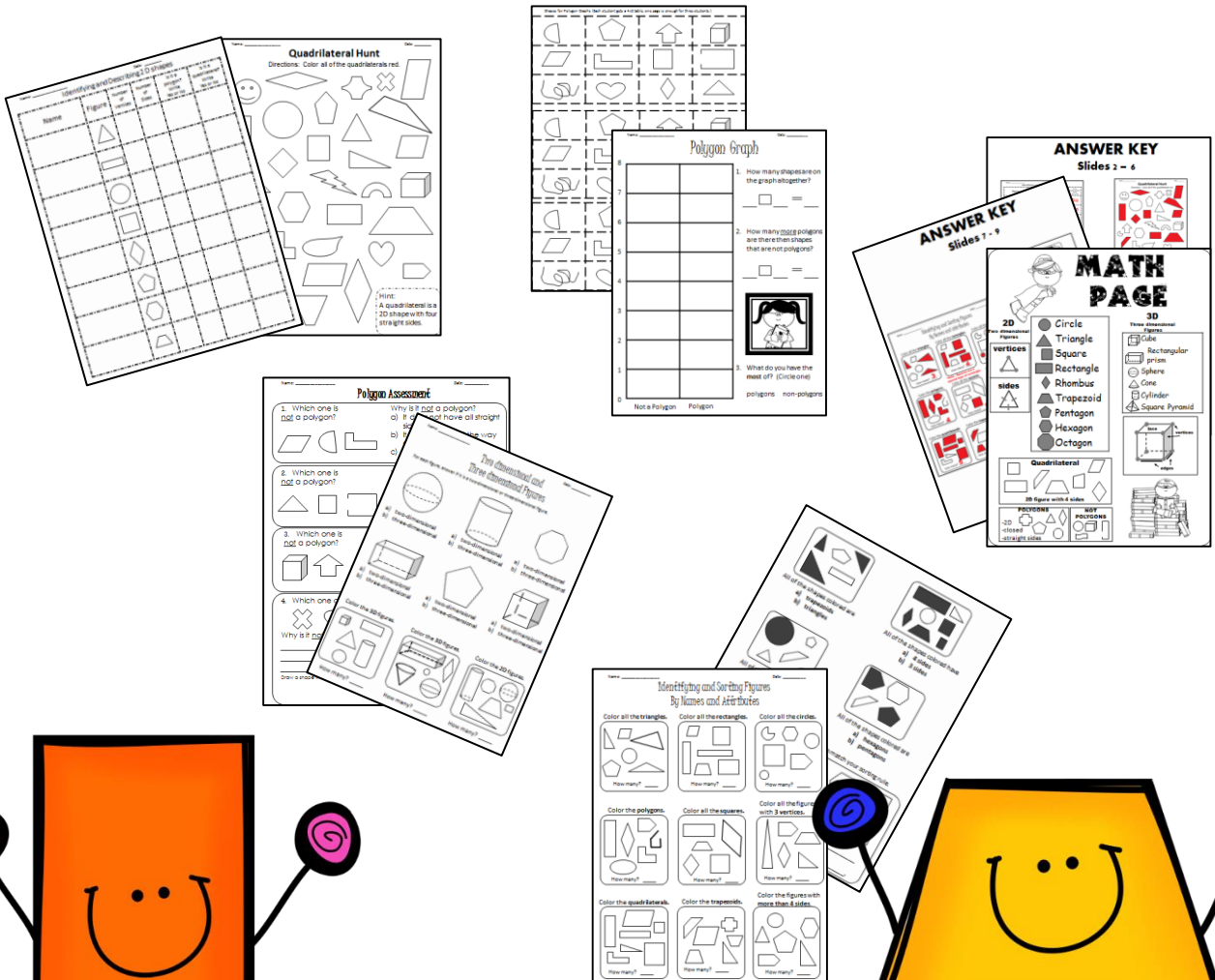


2D and 3D Figures and Attributes



2D figures, Polygons, and Graphing

2D and 3D Sorting, Identifying Names and Attributes

Page 3 Identify 2D figures by name, side, and vertices;
Identify if it is a polygon or quadrilateral

Page 4 Quadrilateral Hunt (identify and color all quadrilaterals)

Polygon Graph and Assessment

Page 5 Shapes for Graph (one page is enough for three different students)

Page 6 Polygon Graph (students use shapes from page 4 to paste on here)

Page 7 Polygon assessment (to be taken after graph is done)

Two-Dimensional Shapes

Page 8-9 Identifying and Sorting 2D Figures by Names and Attributes

Page 10 Identify and Sort 2D and 3D figures

Page 11 Graph: "What is your favorite shape?" Put these choices on a large chart paper or butcher paper and let students answer graph. (You can also use this on a whiteboard and make tally marks as you poll students.)

Page 12 – 14 Graph Recording Pages (3 versions to differentiate)

Math Help Pages

Page 15 – 17 The first page is a page from my First Grade Work Book for Independent Learner's pack, and also in my "Free Resource Page" Pack. I added it so students can reference back to it when completing these worksheets/activities

Cut and Paste Sorting Pages

Page 18 – 21 2D Real World example sorting pages (two versions of each)

Page 22 – 23 2D and 3D Real World example sorting pages



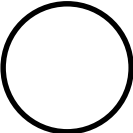
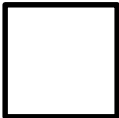

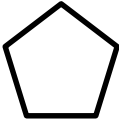


Page 24 – 25 Answer Key

Page 26 Credits

Name: _____

Date: _____

Identifying and Describing 2 D shapes

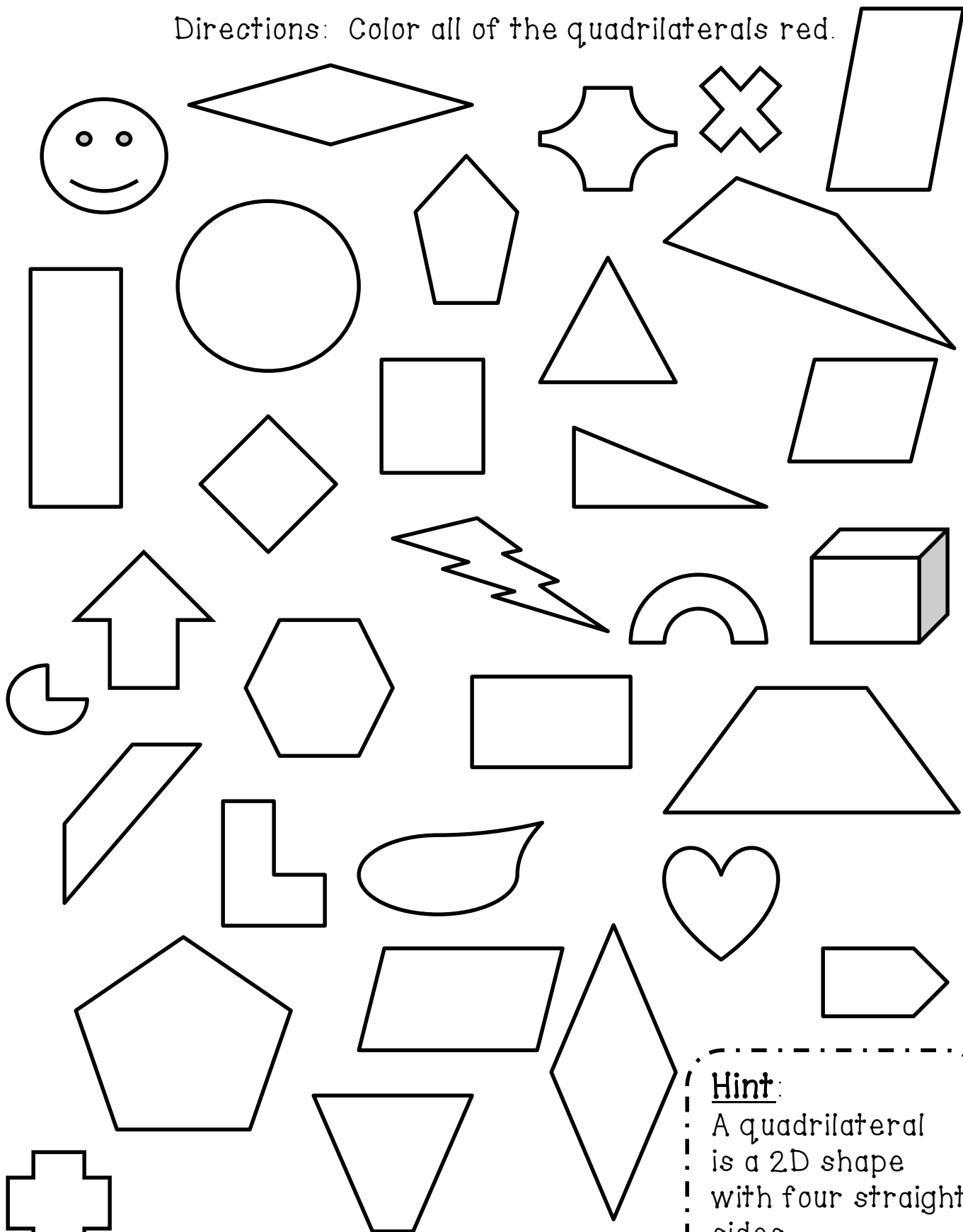
Name	Figure	Number of Vertices	Number of Sides	Is it a polygon? Write Yes or No	Is it a quadrilateral? Write Yes or No
					
					
					
					
					
					
					
					

Name: _____

Date: _____


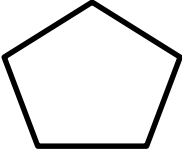

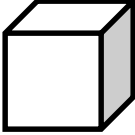

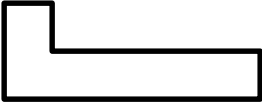
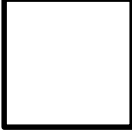






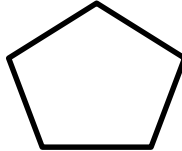
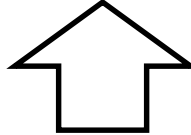
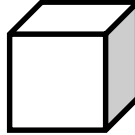

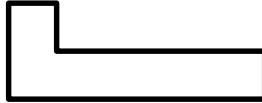







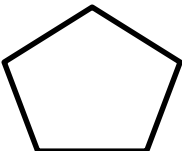

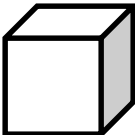

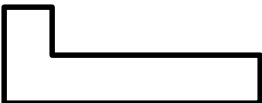
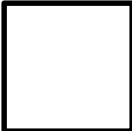





Quadrilateral Hunt

Directions: Color all of the quadrilaterals red.



Hint:

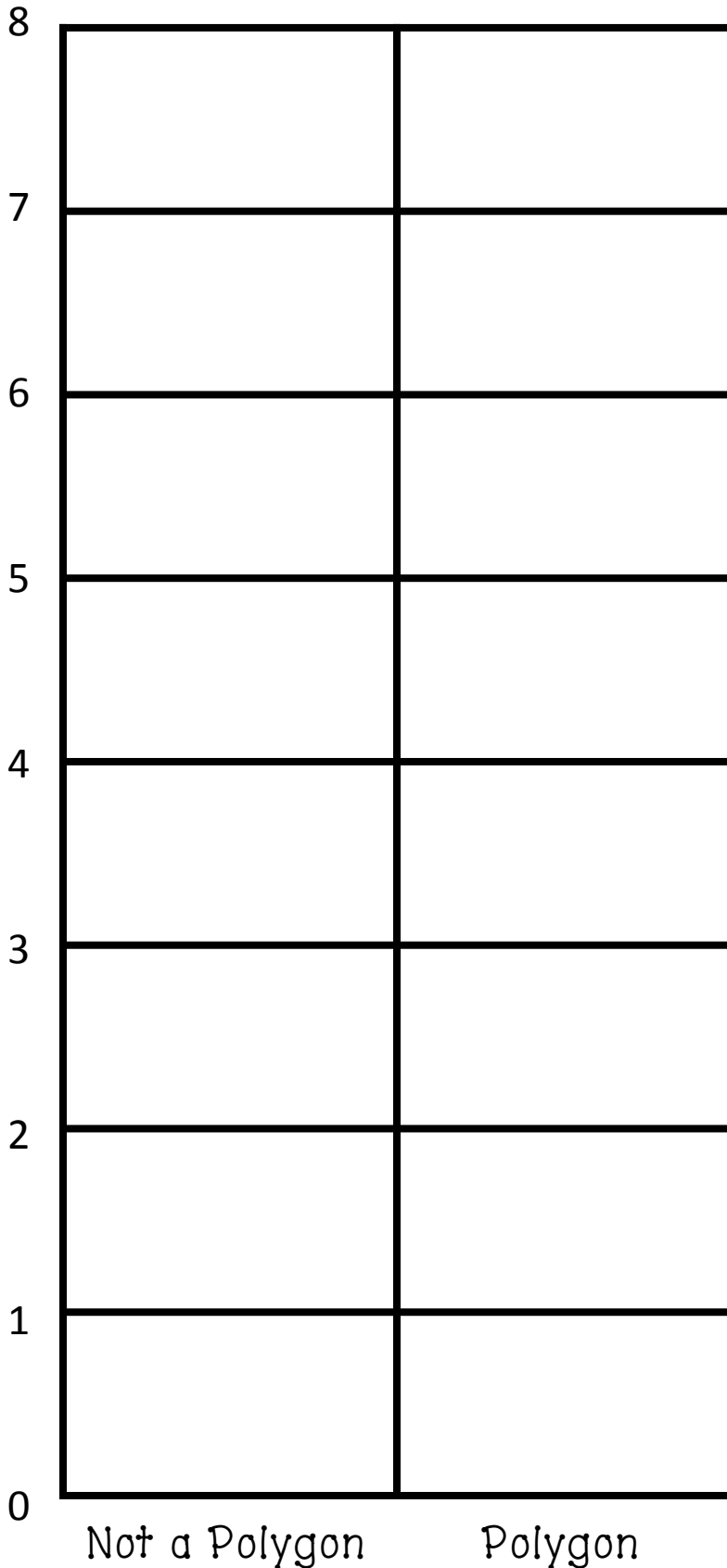
A quadrilateral is a 2D shape with four straight sides.


Name: _____

Date: _____

Polygon Graph

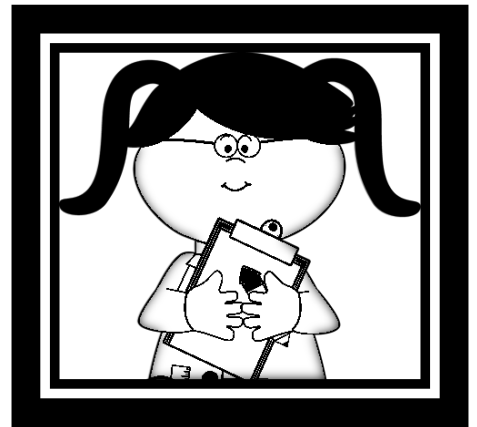


1. How many shapes are on the graph altogether?

_____  _____ = _____

2. How many more polygons are there then shapes that are not polygons?

_____  _____ = _____



3. What do you have the **most** of? (Circle one)

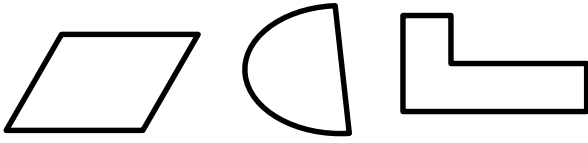
polygons non-polygons

Name: _____

Date: _____

Polygon Assessment

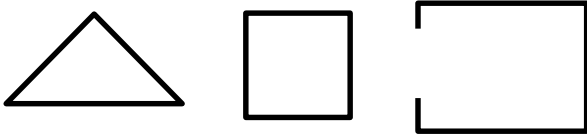
1. Which one is not a polygon?



Why is it not a polygon?

- a) It does not have all straight sides.
- b) It is not closed all the way around.
- c) It is not two-dimensional.

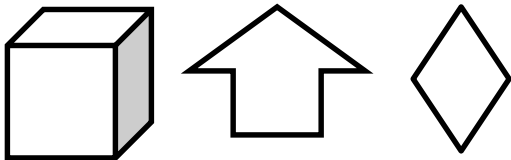
2. Which one is not a polygon?



Why is it not a polygon?

- a) It does not have all straight sides.
- b) It is not closed all the way around.
- c) It is not two-dimensional.

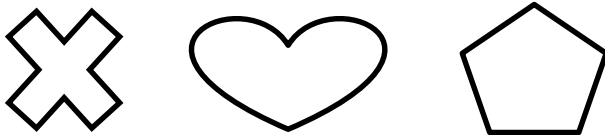
3. Which one is not a polygon?



Why is it not a polygon?

- a) It does not have all straight sides.
- b) It is not closed all the way around.
- c) It is not two-dimensional.

4. Which one of is not a polygon?



Why is it not a polygon?

Draw a shape that is not a polygon:

Draw a polygon:

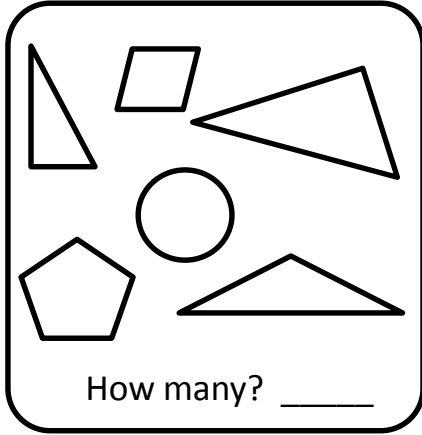
Name: _____

Date: _____

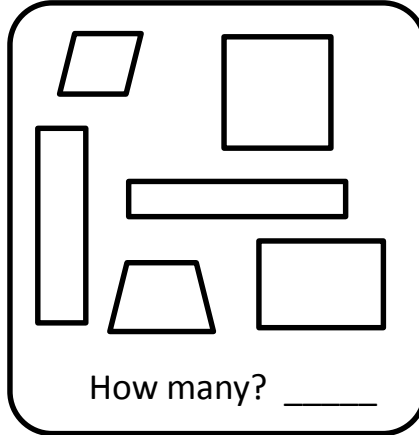
Identifying and Sorting Figures

By Names and Attributes

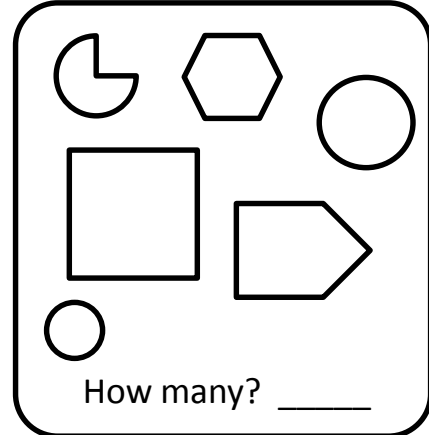
Color all the triangles.



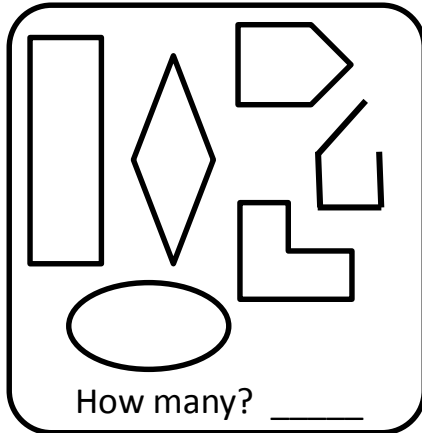
Color all the rectangles.



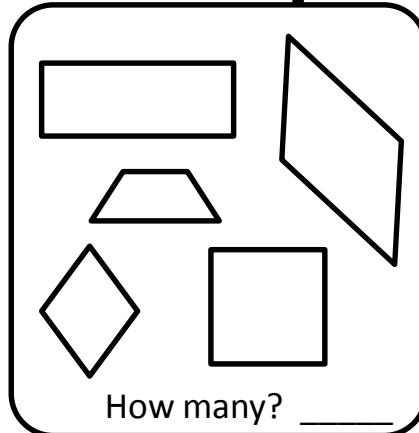
Color all the circles.



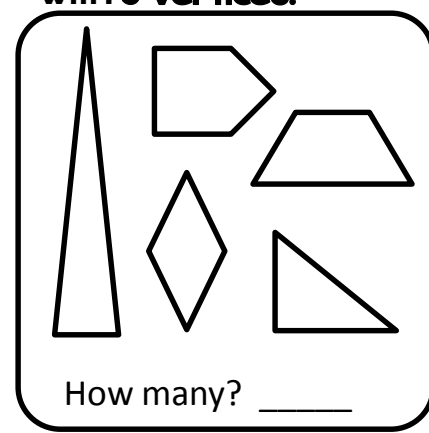
Color the polygons.



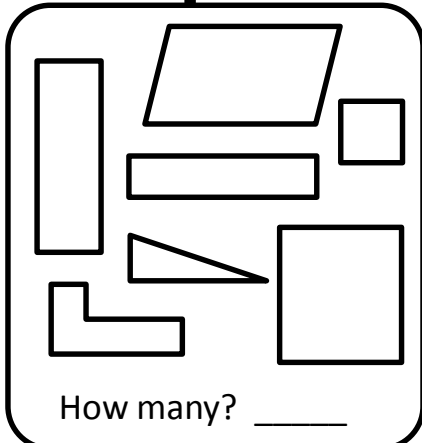
Color all the squares.



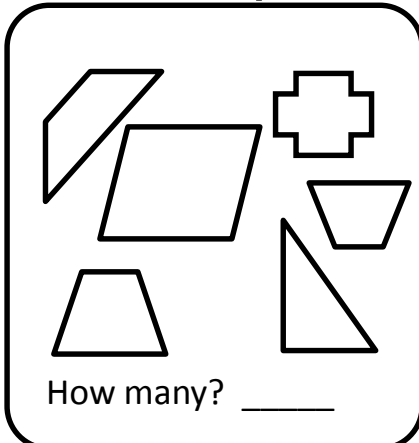
Color all the figures with 3 vertices.



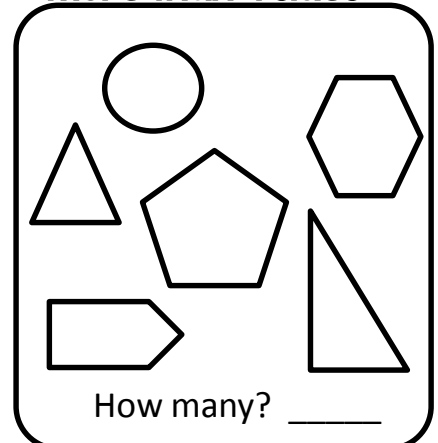
Color the quadrilaterals.

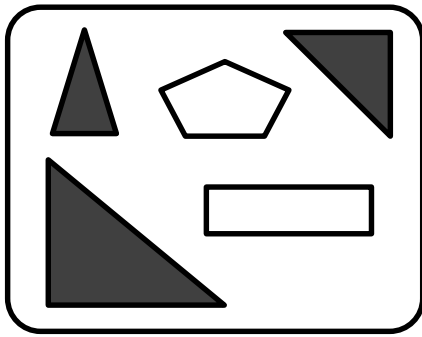


Color the trapezoids.



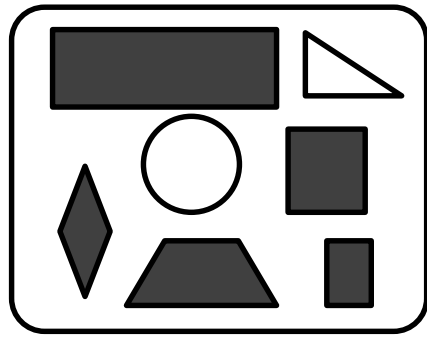
Color the figures with more than 4 sides.





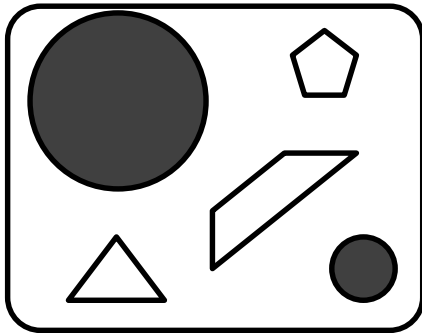
All of the shapes colored are

- a) trapezoids
- b) triangles



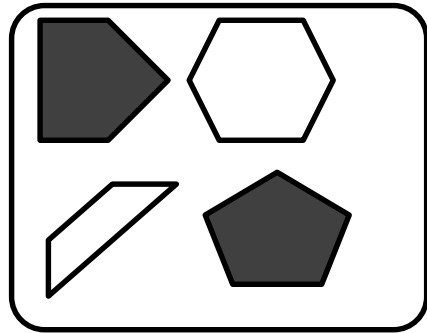
All of the shapes colored have

- a) 4 sides
- b) 3 sides



All of the shapes colored are

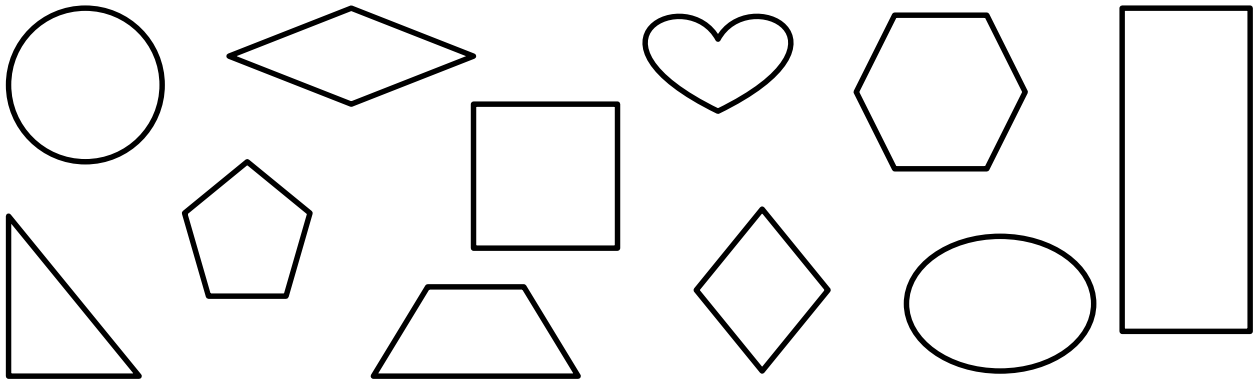
- a) circles
- b) squares



All of the shapes colored are

- a) hexagons
- b) pentagons

Pick a rule about your shapes. Color them to match your sorting rule.



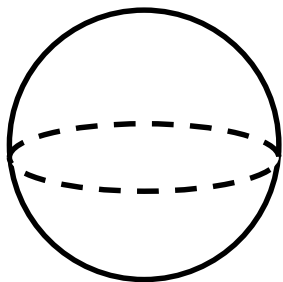
All of my shapes _____

Name: _____

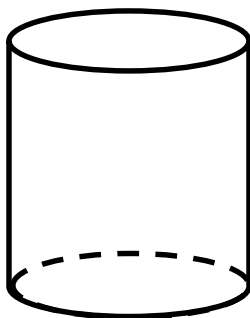
Date: _____

Two dimensional and Three dimensional Figures

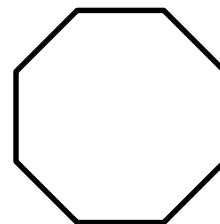
For each figure, answer if it is a two-dimensional or three-dimensional figure.



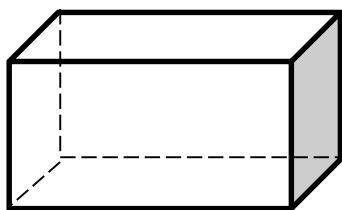
- a) two-dimensional
- b) three-dimensional



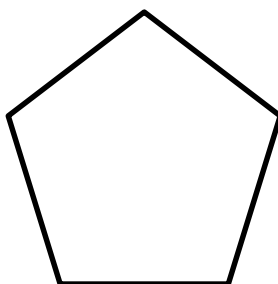
- a) two-dimensional
- b) three-dimensional



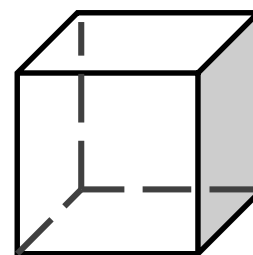
- a) two-dimensional
- b) three-dimensional



- a) two-dimensional
- b) three-dimensional

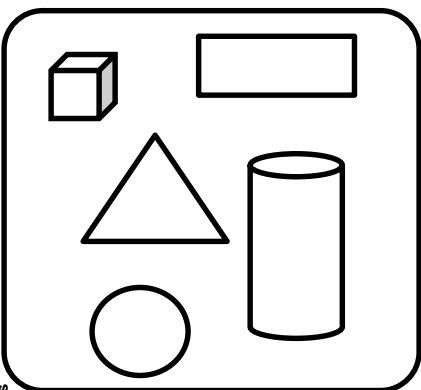


- a) two-dimensional
- b) three-dimensional



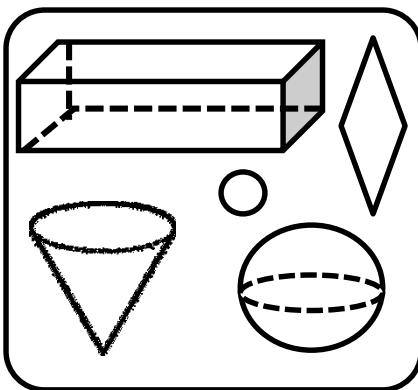
- a) two-dimensional
- b) three-dimensional

Color the 3D figures.



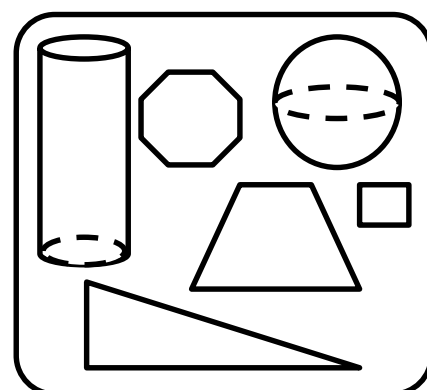
How many? _____

Color the 3D figures.



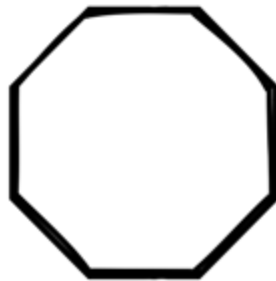
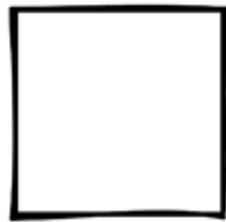
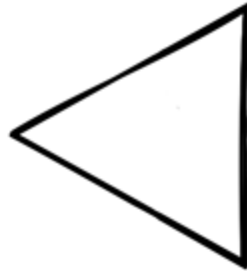
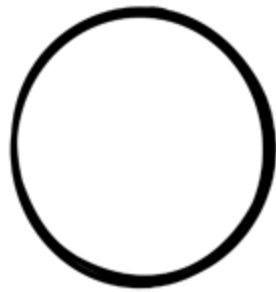
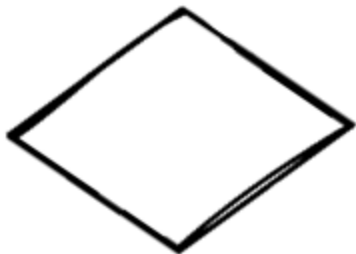
How many? _____

Color the 2D figures.



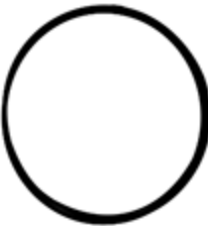
How many? _____

What is your favorite shape?

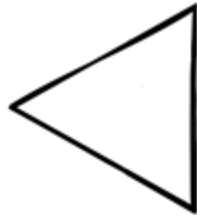


rhombus

circle

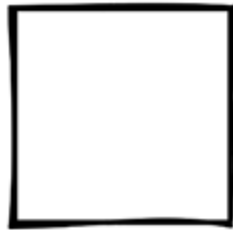


Pippin



triangle

Pippin



square

octagon

Pippin



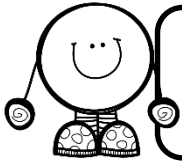
rectangle

Pippin

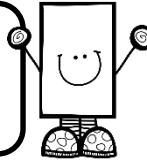
Pippin

Pippin

Name: _____

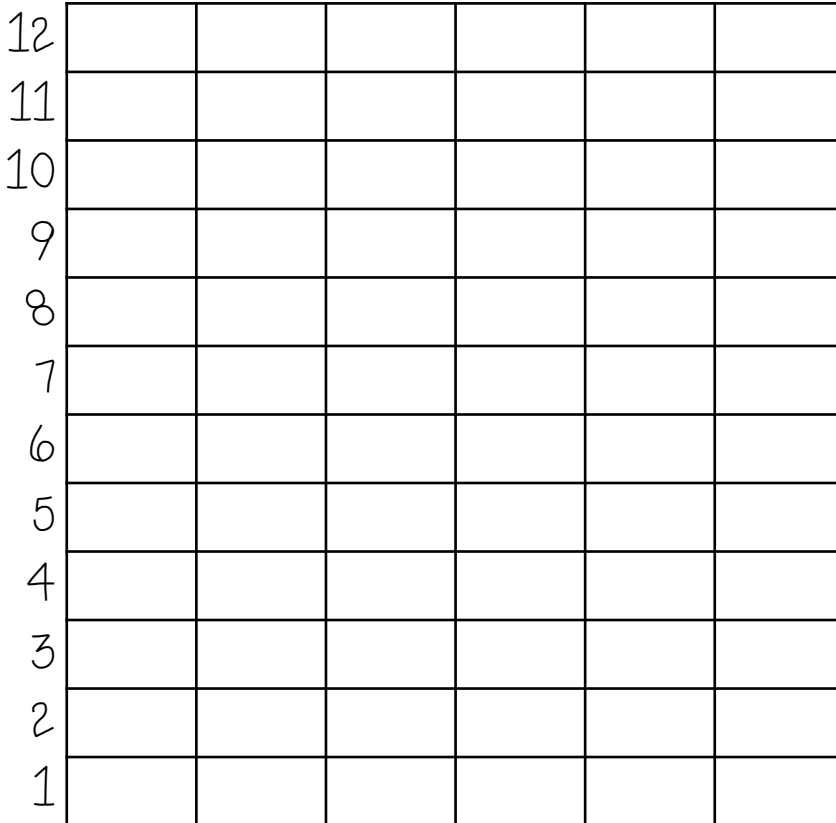


**What is your
favorite 2D shape?**



Directions:

Use the information from your class graph to complete the bar graph. Record this data in the chart below than answer the questions.



rhombus



circle



triangle



square









octagon




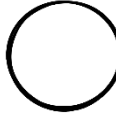
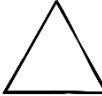

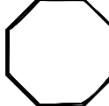

rectangle



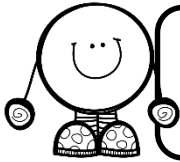
 rhombus	
 circle	
 triangle	
 square	
 octagon	
 rectangle	

Color or circle the shape that received the most votes.

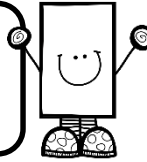
Put an "X" on the shape that received the least votes.

 rhombus	 circle	 triangle	 square	 octagon	 rectangle
------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------

Name: _____

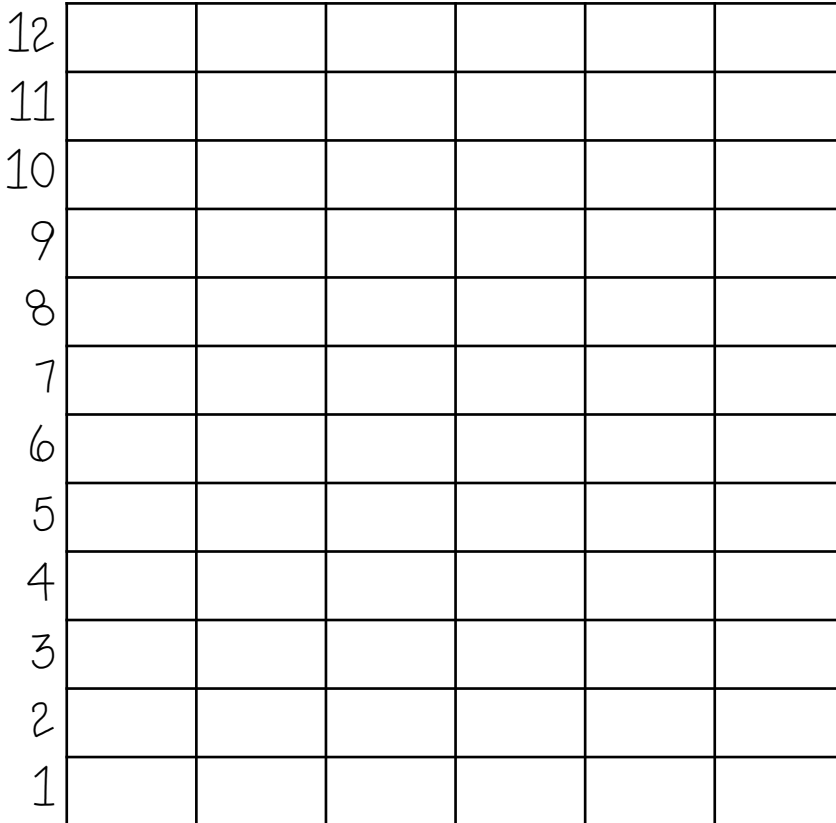


**What is your
favorite 2D shape?**



Directions:

Use the information from your class graph to complete the bar graph. Record this data in the chart below than answer the questions.



rhombus



circle



triangle



square

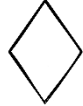







octagon



rectangle

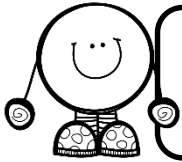


 rhombus	
 circle	
 triangle	
 square	
 octagon	
 rectangle	

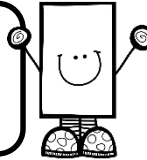
Which shape has the most votes?

Which shape has the least votes?

Name: _____

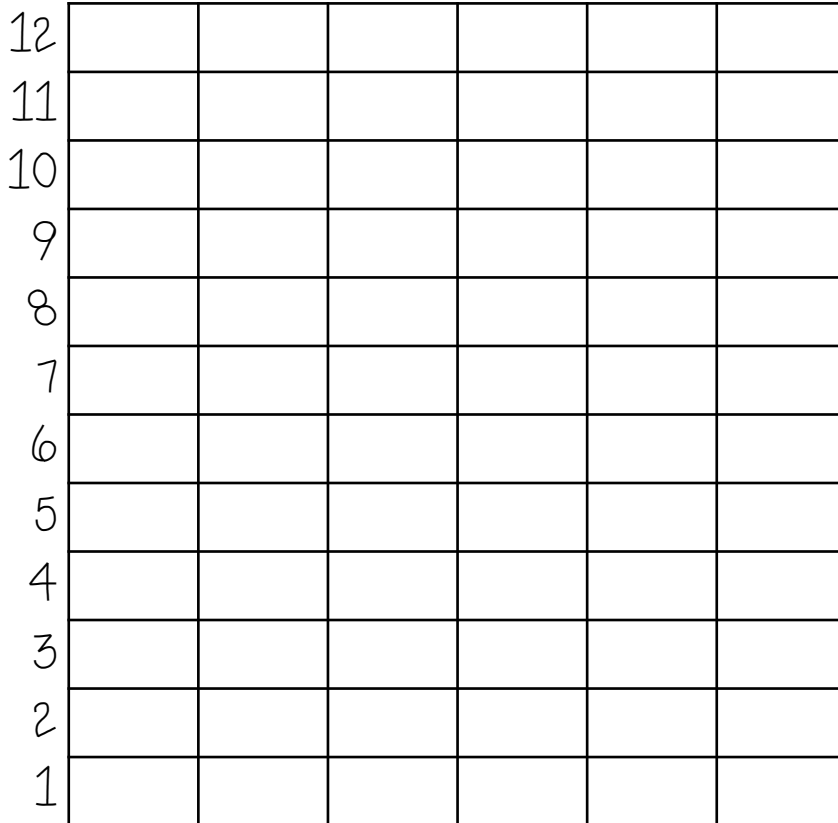


**What is your
favorite 2D shape?**



Directions:

Use the information from your class graph to complete the bar graph. Record this data in the chart below than answer the questions.



rhombus



circle



triangle



square

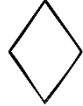







octagon



rectangle



 rhombus	
 circle	
 triangle	
 square	
 octagon	
 rectangle	

Which shape has the most votes? _____

Which shape has the least votes? _____

How many students chose a shape with four sides? _____

Did more students like a square or a rectangle best? _____

How many more? _____

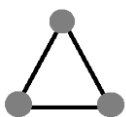


MATH PAGE

2D










Two dimensional
Figures

vertices

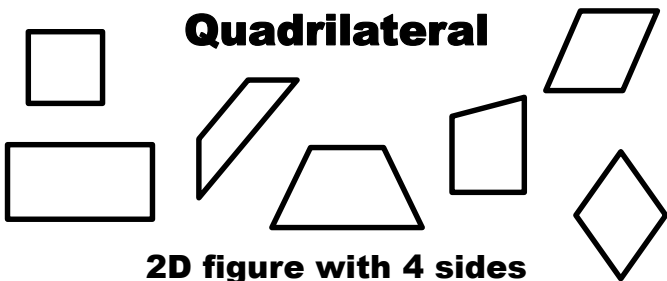


sides



-  Circle
-  Triangle
-  Square
-  Rectangle
-  Rhombus
-  Trapezoid
-  Pentagon
-  Hexagon
-  Octagon

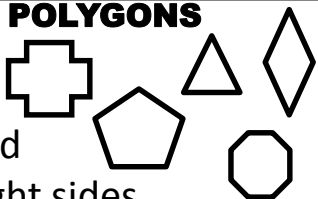
Quadrilateral



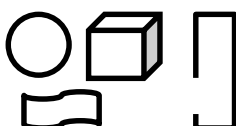
2D figure with 4 sides

POLYGONS

-2D
-closed
-straight sides



NOT POLYGONS



3D

Three dimensional
Figures



Cube



Rectangular
prism



Sphere



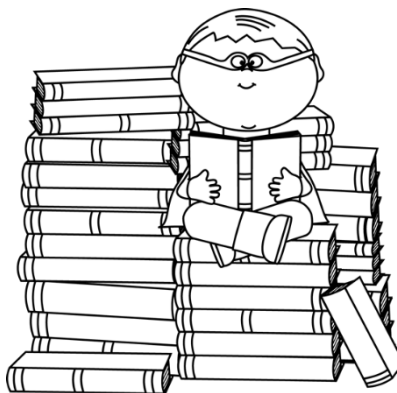
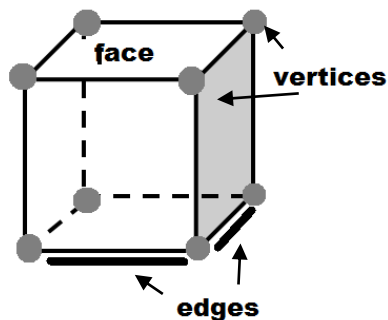
Cone



Cylinder



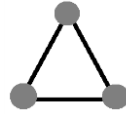
Square Pyramid





Shapes

vertices

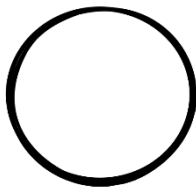


sides

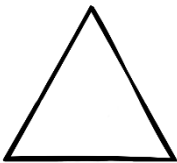
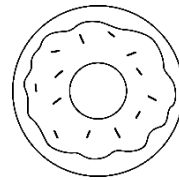
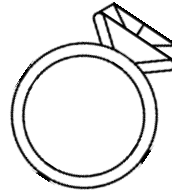


2D

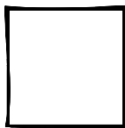
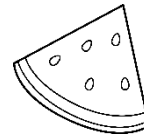
Two dimensional Figures



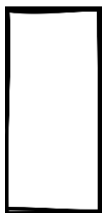
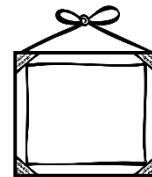
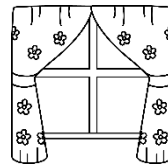
Circle



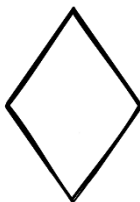
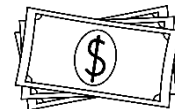
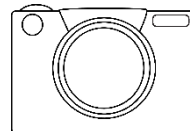
Triangle



Square



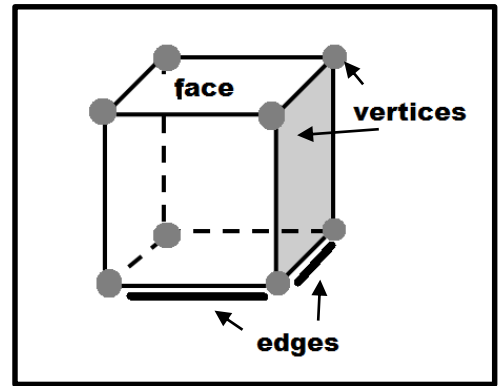
Rectangle



Rhombus

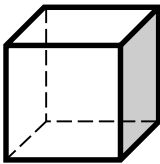


Shapes

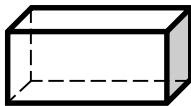
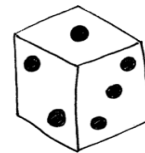
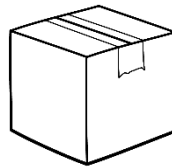


3D

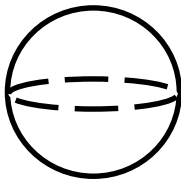
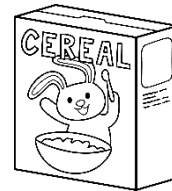
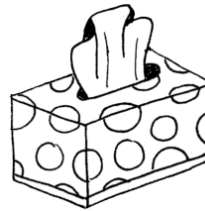
Three dimensional Figures



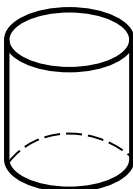
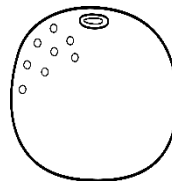
Cube



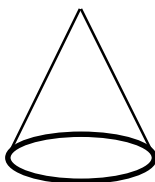
Rectangular
Prism



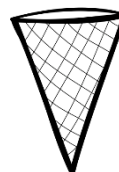
Sphere



Cylinder



Cone



Name: _____

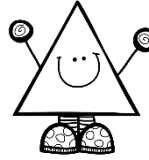
Date: _____

Sorting Real-Life Shapes

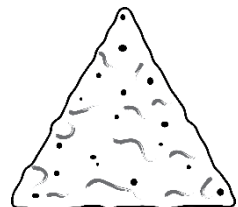
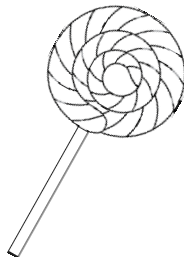
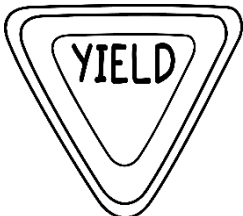
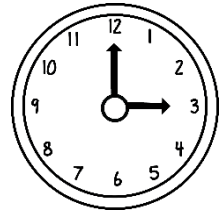
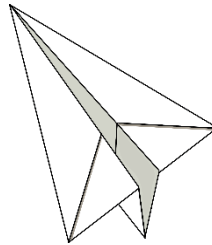
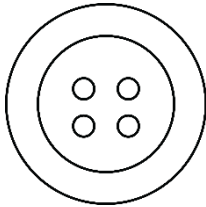
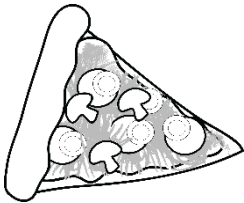
Directions: Cut out the pictures on the bottom. Paste them next to the picture that matches its shape.



Circle



Triangle

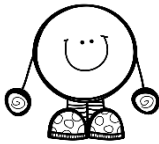


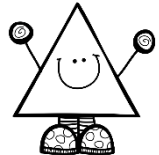
Name: _____

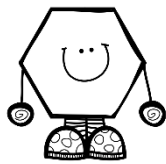
Date: _____

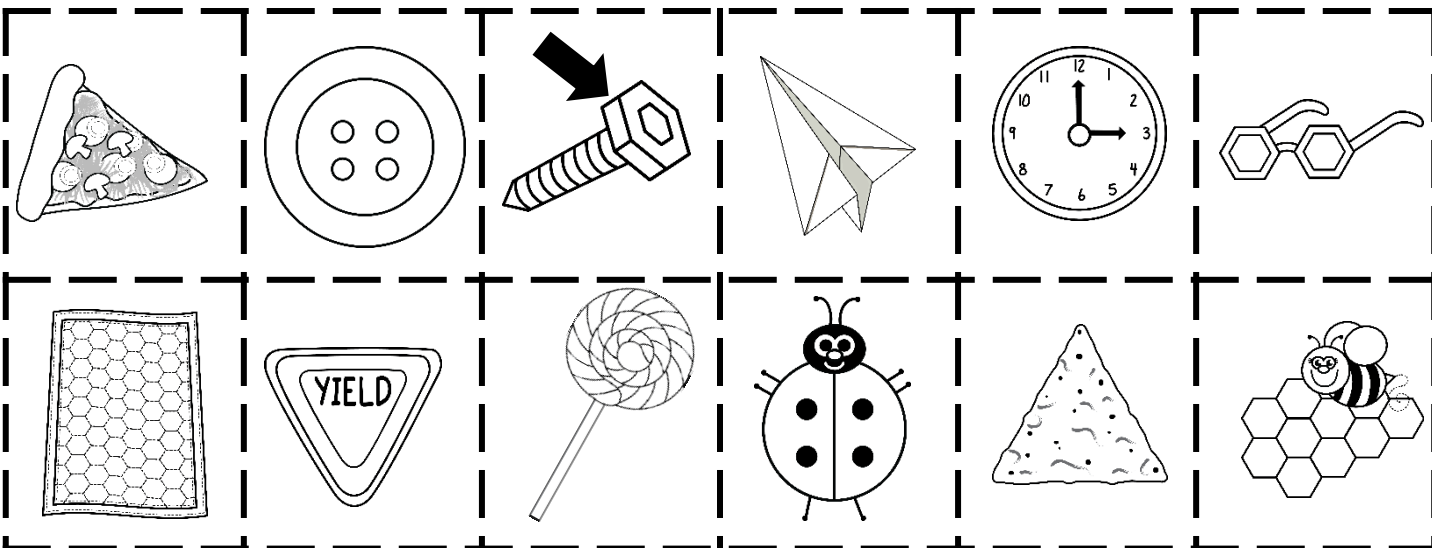
Sorting Real-Life Shapes

Directions: Cut out the pictures on the bottom. Paste them next to the picture that matches its shape.

Circle				
				

Triangle				
				

Hexagon				
				

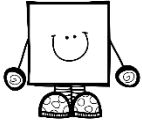


Name: _____

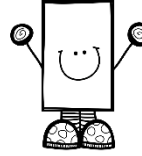
Date: _____

Sorting Real-Life Shapes

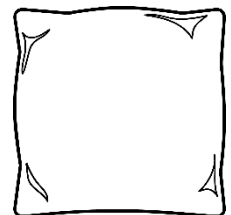
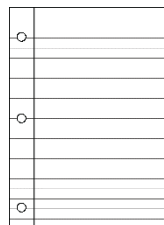
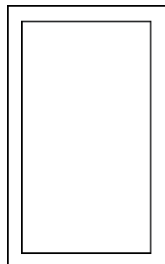
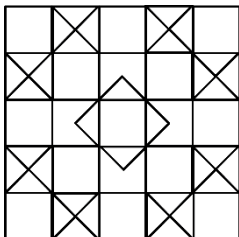
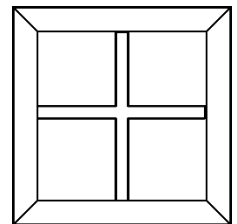
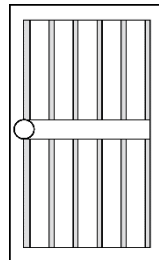
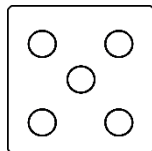
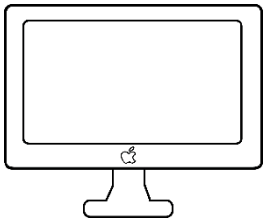
Directions: Cut out the pictures on the bottom. Paste them next to the picture that matches its shape.



Square



Rectangle

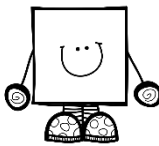


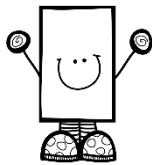
Name: _____

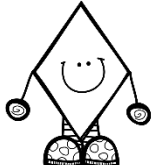
Date: _____

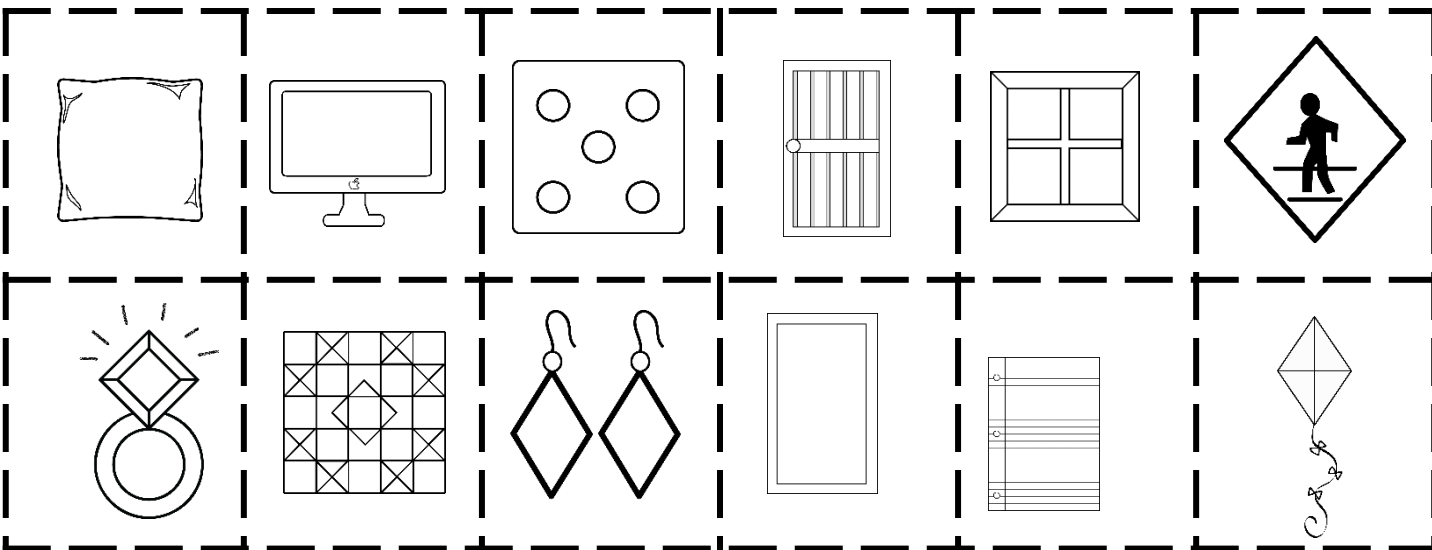
Quadrilateral Sort: Real-Life Shapes

Directions: Cut out the pictures on the bottom. Paste them next to the picture that matches its shape.

Square 				
----------------------------------------------------------------------------------------------------	--	--	--	--

Rectangle 				
-------------------------------------------------------------------------------------------------------	--	--	--	--

Rhombus 				
-------------------------------------------------------------------------------------------------------	--	--	--	--



Name: _____

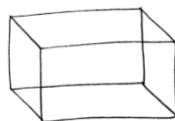
Date: _____

Sorting 2D and 3D Real-Life Shapes

Directions: Cut out the pictures on the bottom. Paste them next to the picture that matches its shape.

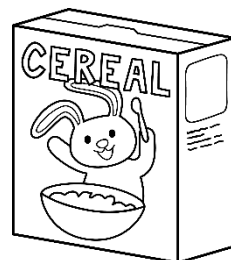
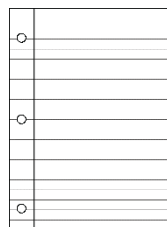
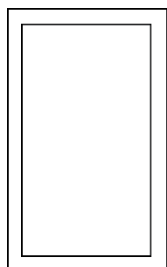
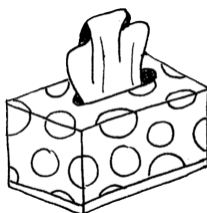
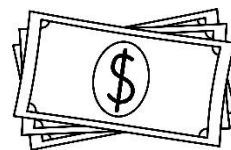
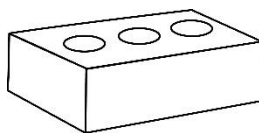
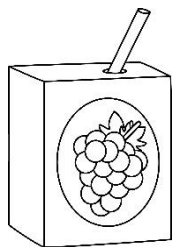


Rectangle



**Rectangular
Prism**

Pippin - Shapes



Name: _____

Date: _____

Sorting 2D and 3D Real-Life Shapes

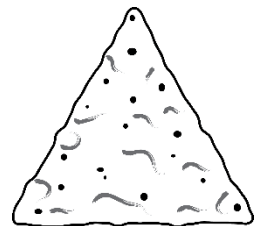
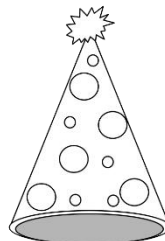
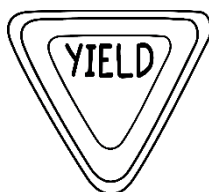
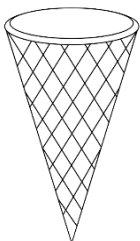
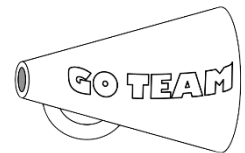
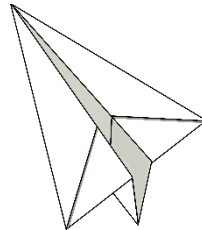
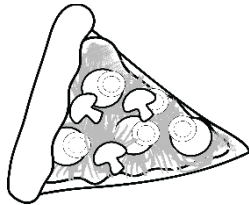
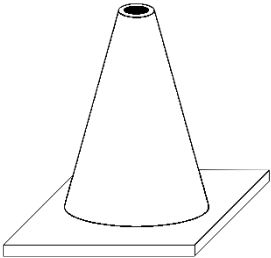
Directions: Cut out the pictures on the bottom. Paste them next to the picture that matches its shape.



Triangle



Cone



ANSWER KEY Slides 2 – 6

Name: _____ Date: _____

Identifying and Describing 2 D shapes

Name	Figure	Number of Vertices	Number of Sides	Is it a polygon? Write Yes or No	Is it a quadrilateral? Write Yes or No
Triangle		3	3	Yes	No
Rectangle		4	4	Yes	Yes
Circle		0	0	No	No
Square		4	4	Yes	Yes
Rhombus		4	4	Yes	Yes
Pentagon		5	5	Yes	No
Hexagon		6	6	Yes	No
Trapezoid		4	4	Yes	Yes

Name: _____ Date: _____

Quadrilateral Hunt

Directions: Color all of the quadrilaterals red.

Hint: A quadrilateral is a 2D shape with four straight sides.

Name: _____ Date: _____

Polygon Graph

Not a Polygon	Polygon

1. How many shapes are on the graph altogether?
5 + 7 = 12

2. How many more polygons are there than shapes that are not polygons?
7 - 5 = 2

3. What do you have the most of? (Circle one)
polygons non-polygons

Name: _____ Date: _____

Polygon Assessment

1. Which one is not a polygon?
 Why is it not a polygon?
a) It does not have all straight sides.
b) It is not closed all the way around.
c) It is not two-dimensional.

2. Which one is not a polygon?
 Why is it not a polygon?
a) It does not have all straight sides.
b) It is not closed all the way around.
c) It is not two-dimensional.

3. Which one is not a polygon?
 Why is it not a polygon?
a) It does not have all straight sides.
b) It is not closed all the way around.
c) It is not two-dimensional.

4. Which one of is not a polygon?
 Why is it not a polygon?
It does not have all straight sides.
Draw a shape that is not a polygon: Draw a polygon:

Answers vary. Answers vary.

ANSWER KEY Slides 7 - 9

Name: _____

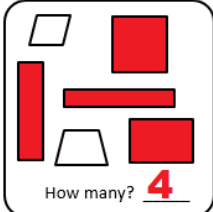
Date: _____

Identifying and Sorting Figures By Names and Attributes

Color all the **triangles**.

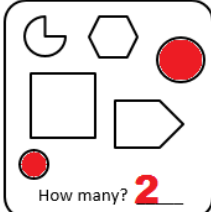


Color all the **rectangles**.



***Note - Squares are a special type of rectangle.**

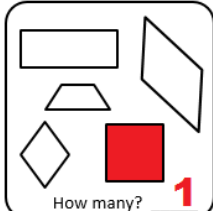
Color all the **circles**.



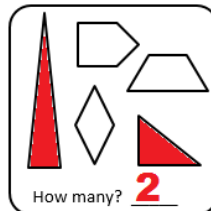
Color the **polygons**.



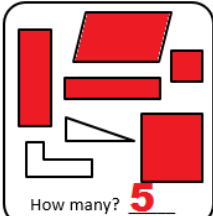
Color all the **squares**.



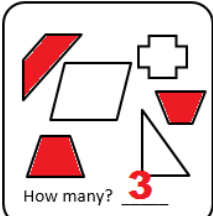
Color all the figures with **3 vertices**.



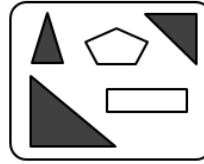
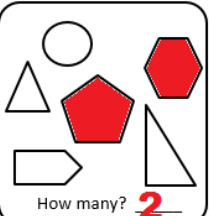
Color the **quadrilaterals**.



Color the **trapezoids**.

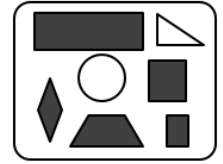


Color the figures with **more than 4 sides**.



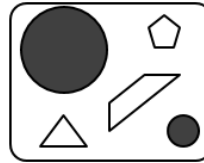
All of the shapes colored are

- b** a) trapezoids
b) triangles



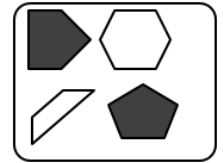
All of the shapes colored have

- a** a) 4 sides
b) 3 sides



All of the shapes colored are

- a** a) circles
b) squares



All of the shapes colored are

- b** a) hexagons
b) pentagons

Pick a rule about your shapes. Color them to match your sorting rule.

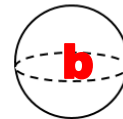


Name: _____

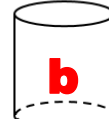
Date: _____

Two dimensional and Three dimensional Figures

For each figure, answer if it is a two-dimensional or three-dimensional figure.



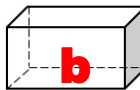
- b** a) two-dimensional
b) three-dimensional



- b** a) two-dimensional
b) three-dimensional



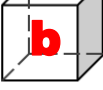
- a** a) two-dimensional
b) three-dimensional



- b** a) two-dimensional
b) three-dimensional

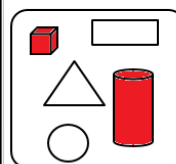


- a** a) two-dimensional
b) three-dimensional



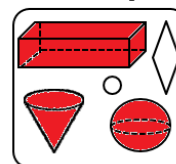
- b** a) two-dimensional
b) three-dimensional

Color the **3D** figures.



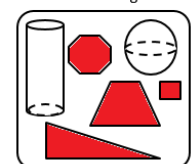
How many? **2**

Color the **3D** figures.



How many? **3**

Color the **2D** figures.



How many? **4**

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throughout the year! These
sheets can even be used as an
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