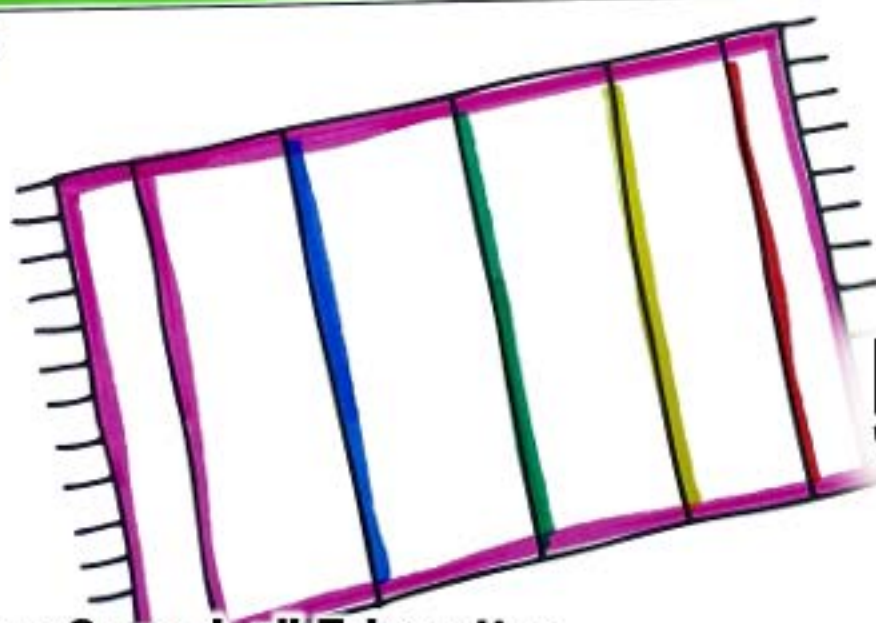


2D Shapes & Symmetry



7



Name: _____

Shape Scavenger Hunt

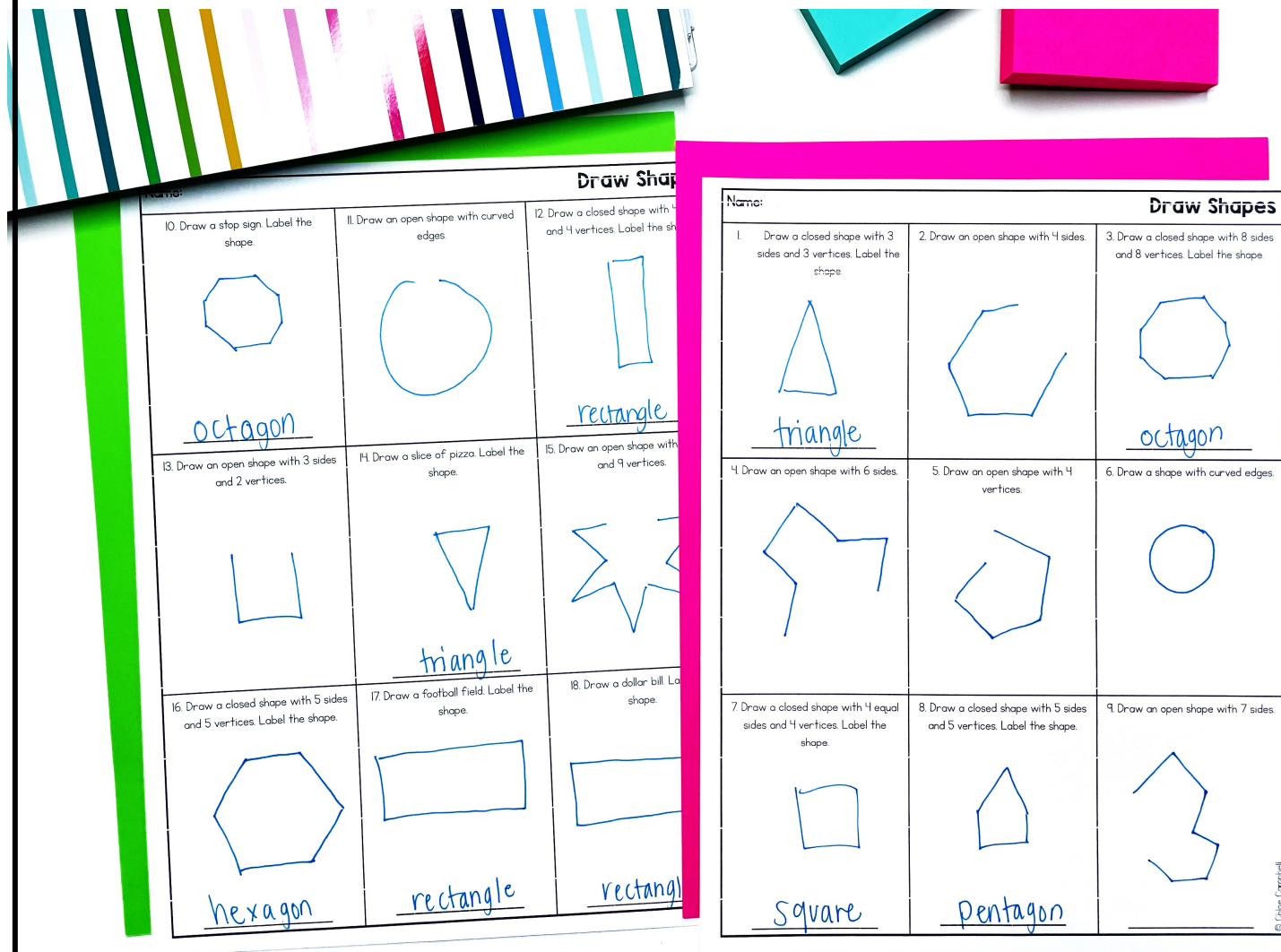
Directions: Walk around the room to find hidden shapes. For each shape you find, record the number of sides and vertices.

Number	Shape Name	Number of Sides	Number of Vertices
1	Pentagon	5	5
2	Octagon	8	8
3	Octagon	8	8
4	Square	4	4

5 Low Prep Activities

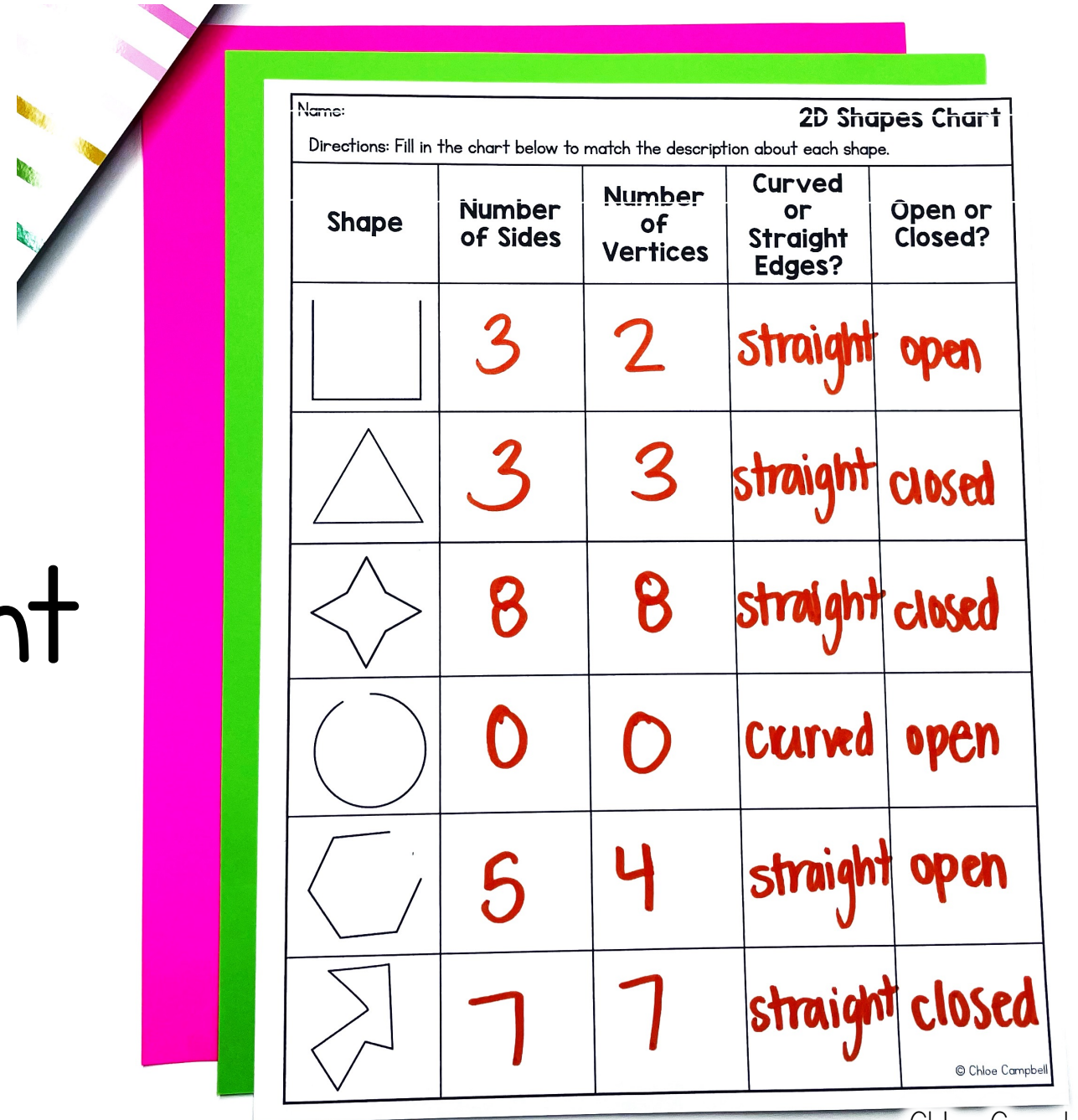
What's included?

- ✓ Booklet for whole group or small group instruction
- ✓ 4 low-prep, hands-on activities for stations or independent work
- ✓ Teacher Directions
- ✓ Answer Keys



5 Attention Grabbing Activities


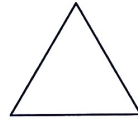
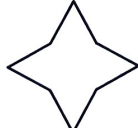



- ✓ 2D Figures Booklet
- ✓ 2D Shapes Chart
- ✓ Draw Shapes
- ✓ 2D Shape Scavenger Hunt
- ✓ Symmetry



2D Shapes Chart

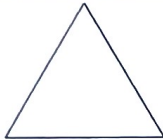

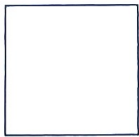
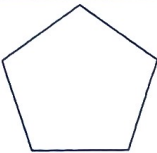


Name: _____

Directions: Fill in the chart below to match the description about each shape.

Shape	Number of Sides	Number of Vertices	Curved or Straight Edges?	Open or Closed?
	3	2	straight	open
	3	3	straight	closed
	8	8	straight	closed
	0	0	curved	open
	5	4	straight	open
	7	7	straight	closed

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2D Figures Booklet

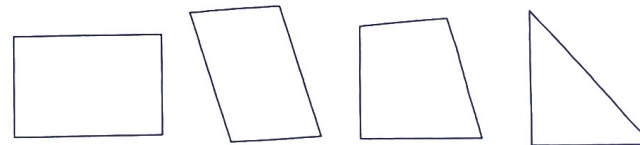
Shape	Picture	Description
Triangle		3 sides, vertices closed straight edges
Rectangle		4 sides, vertices closed straight edges
Square		4 sides, vertices closed straight edges
Pentagon		5 sides, vertices closed straight edges
Hexagon		6 sides, vertices closed straight edges
Octagon		8 sides, vertices closed straight edges

2D Shapes

By:

Closed Shapes

All lines connect
No gaps

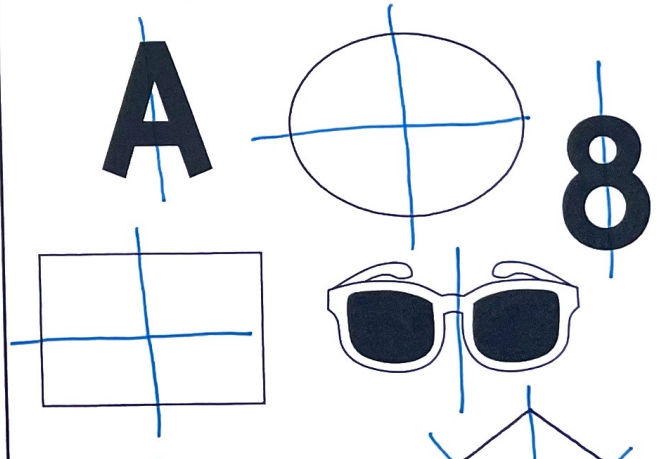


Open Shapes

gaps in lines
Not all lines connect

Symmetry

divides a shape into 2
congruent parts
- when folded, the parts match
exactly


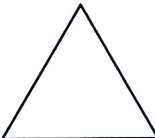
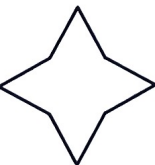
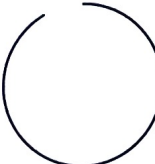
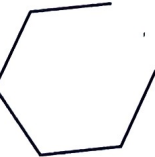
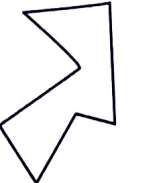


2D Shapes Chart

Name: _____

2D Shapes Chart

Directions: Fill in the chart below to match the description about each shape.

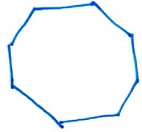
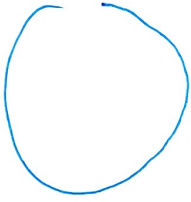
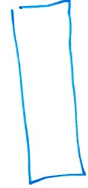
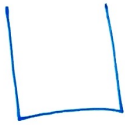

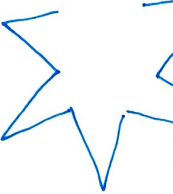
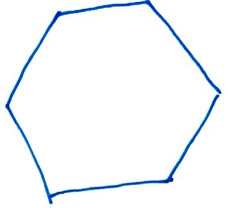


Shape	Number of Sides	Number of Vertices	Curved or Straight Edges?	Open or Closed?
	3	2	straight	open
	3	3	straight	closed
	8	8	straight	closed
	0	0	curved	open
	5	4	straight	open
	7	7	straight	closed

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Draw Open & Closed 2D Shapes


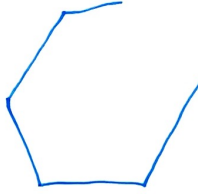
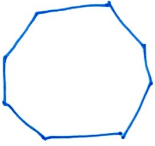
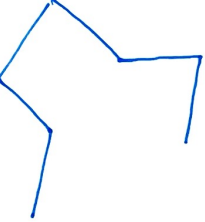
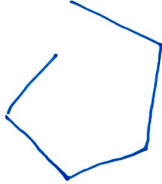
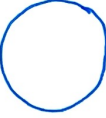
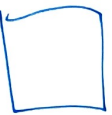


Name: _____

Draw Shapes

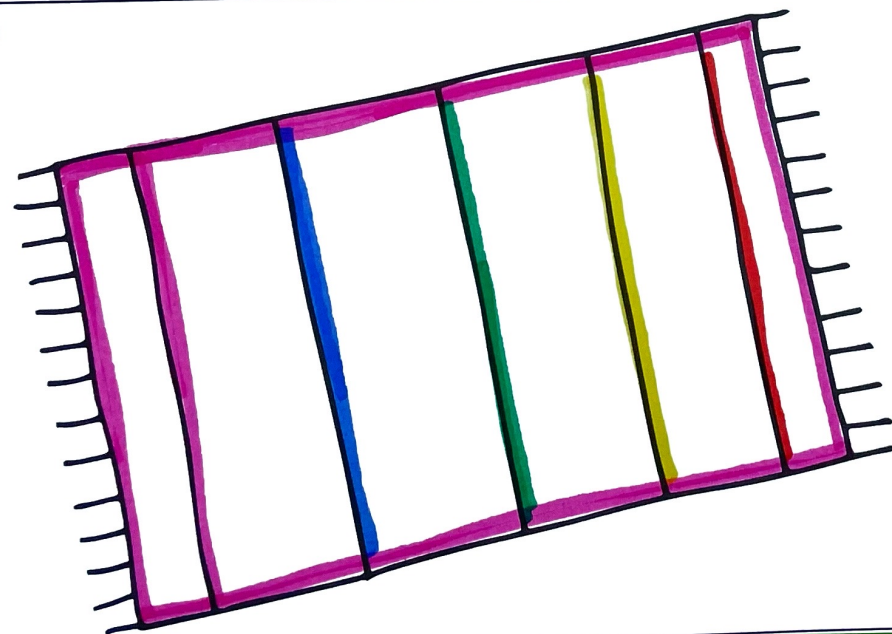
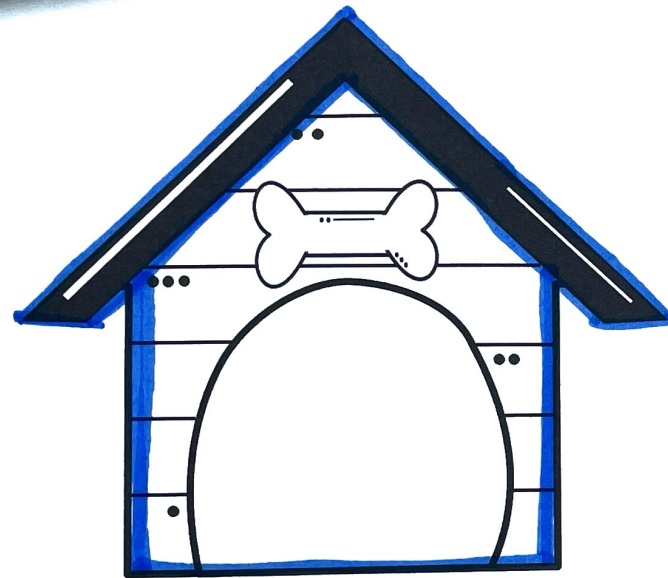
10. Draw a stop sign. Label the shape.  <u>octagon</u>	11. Draw an open shape with curved edges. 	12. Draw a closed shape with 4 sides and 4 vertices. Label the shape.  <u>rectangle</u>
13. Draw an open shape with 3 sides and 2 vertices. 	14. Draw a slice of pizza. Label the shape.  <u>triangle</u>	15. Draw an open shape with 4 sides and 4 vertices. 
16. Draw a closed shape with 5 sides and 5 vertices. Label the shape.  <u>pentagon</u>	17. Draw a football field. Label the shape.  <u>rectangle</u>	18. Draw a dollar bill. Label the shape.  <u>rectangle</u>

Name: _____

Draw Shapes

1. Draw a closed shape with 3 sides and 3 vertices. Label the shape.  <u>triangle</u>	2. Draw an open shape with 4 sides. 	3. Draw a closed shape with 8 sides and 8 vertices. Label the shape.  <u>octagon</u>
4. Draw an open shape with 6 sides. 	5. Draw an open shape with 4 vertices. 	6. Draw a shape with curved edges. 
7. Draw a closed shape with 4 equal sides and 4 vertices. Label the shape.  <u>square</u>	8. Draw a closed shape with 5 sides and 5 vertices. Label the shape.  <u>pentagon</u>	9. Draw an open shape with 7 sides.  _____

2D Shapes Scavenger Hunt



Name: _____

Shape Scavenger Hunt

Directions: Walk around the room to find hidden shapes. For each shape you find, record the answers.

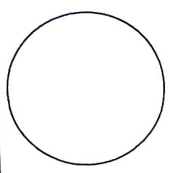
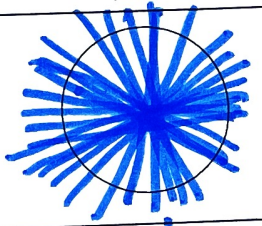
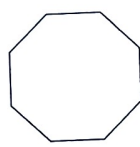
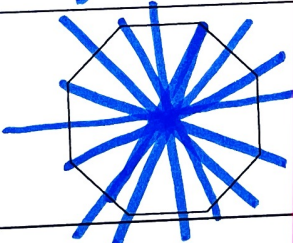

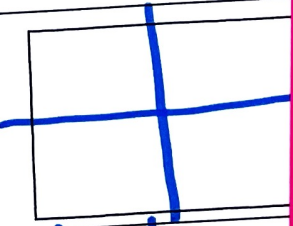
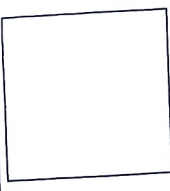
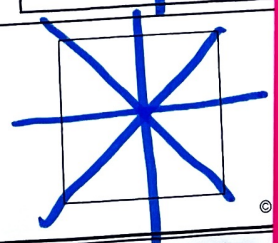
Number	Shape Name	Number of Sides	Number of Vertices	Closed or Open?
1	Pentagon	5	5	closed
2	Octagon	8	8	closed
3	Octagon	8	8	closed
4	Square	4	4	closed
5	Hexagon	6	6	closed

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Symmetry

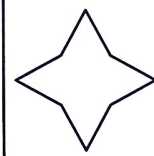
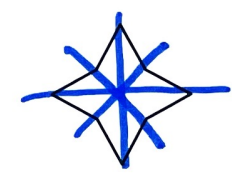
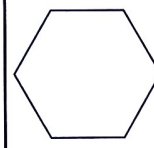
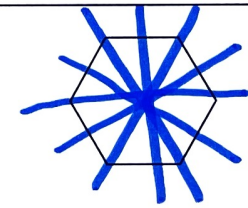
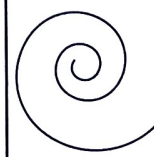
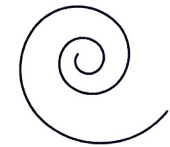
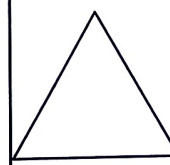

Name: _____

Directions: Fold the shapes to find lines of symmetry. Record your answers below.

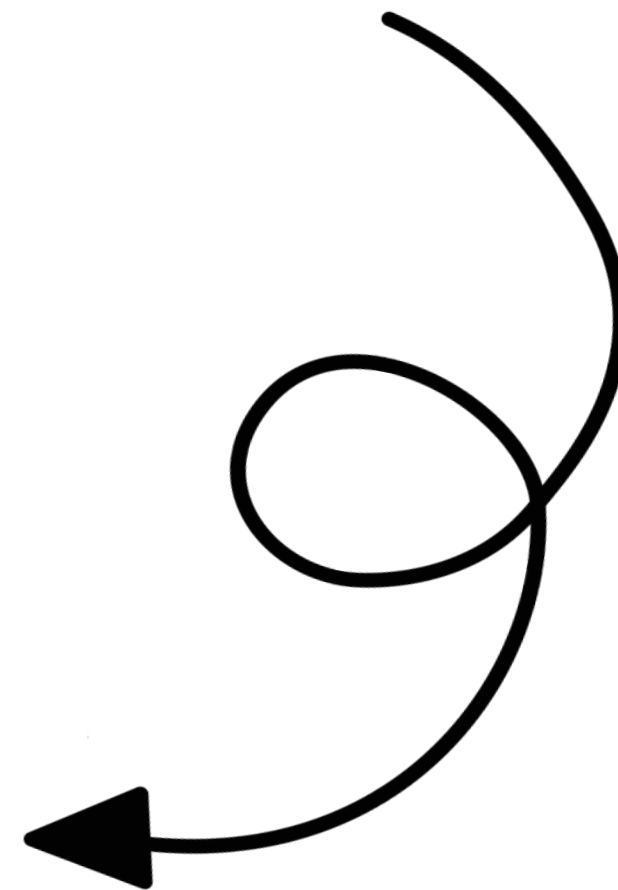
Object	How many lines of symmetry?	Draw the lines of symmetry
	infinite	
	8	
Z	0	Z
	2	
	4	

Name: _____

Directions: Fold the shapes to find lines of symmetry. Record your answers below.

Object	How many lines of symmetry?	Draw the lines of symmetry
	4	
	6	
	0	
A	1	A
	3	

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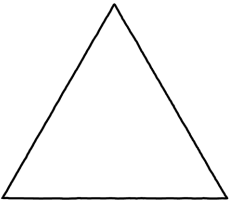
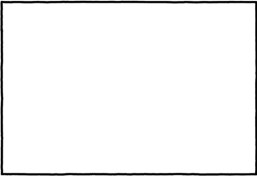
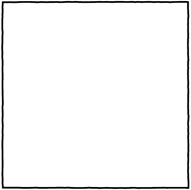
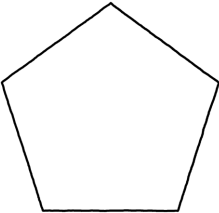
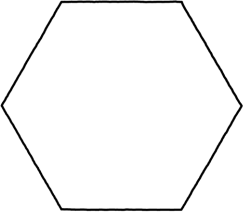
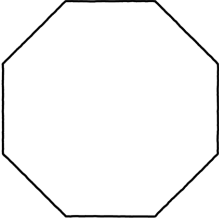
Perfect For:

- ✓ Centers or Stations
- ✓ Morning Work
- ✓ Activities
- ✓ Introducing Skills
- ✓ Assessments or Quick Checks
- ✓ Reteaching Skills
- ✓ Summer School Lessons
- ✓ Homework or Family Based Activities
- ✓ Intervention Lessons

2D Figures: Triangles, rectangles, squares, pentagons, hexagons, and octagons

Lines of Symmetry

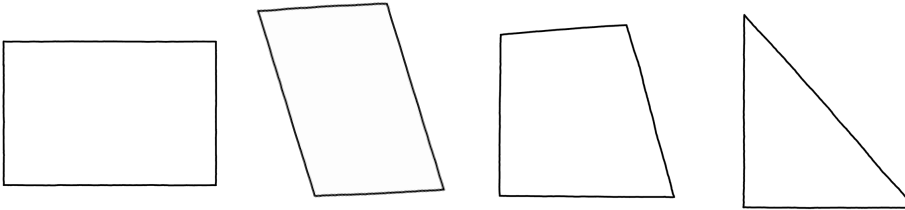
Activity	Directions
2D Shapes Chart	<ul style="list-style-type: none">• Print the 2D shapes chart.• Students will fill in the chart with correct information about each shape..
Draw Shapes	<ul style="list-style-type: none">• Print two-sided.• Students will draw shapes based on the instructions inside each box.
2D Shape Scavenger Hunt	<ul style="list-style-type: none">• Cut out the cards and hang the shapes around the room.• Students will walk around the room to identify the shapes.• Use the recording sheet to hold students accountable.
Symmetry	<ul style="list-style-type: none">• Cut out each of the shapes.• Students will fold the shapes to identify the lines of symmetry.• Use the recording sheet to hold students accountable.
2D Figures Booklet	<ul style="list-style-type: none">• Print two-sided.• Fold the booklet in half.• Walk through the booklet with students in a whole group or small group setting.• Have students keep the booklet in a math folder or notebook to reference as needed.

Shape	Picture	Description
Triangle		
Rectangle		
Square		
Pentagon		
Hexagon		
Octagon		

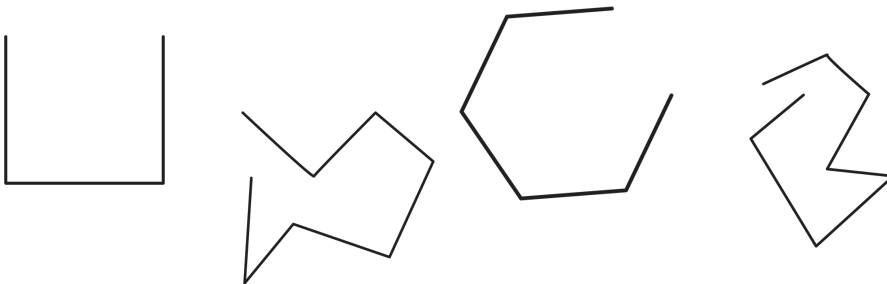
2D Shapes

By:

Closed Shapes



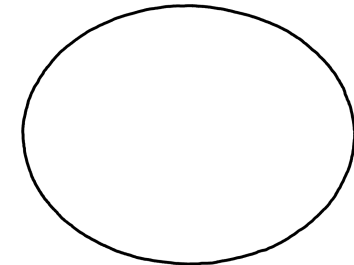
Open Shapes



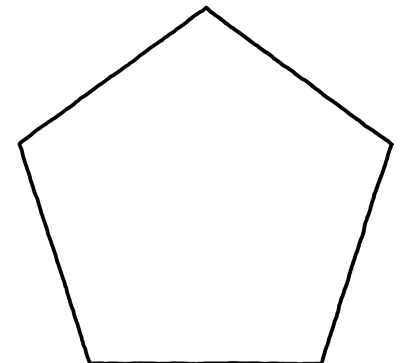
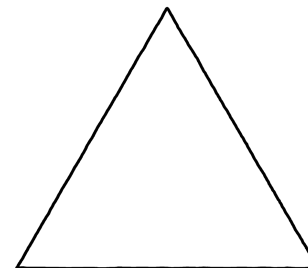
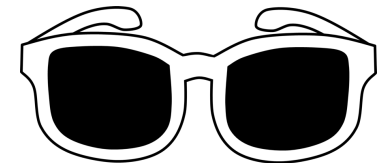
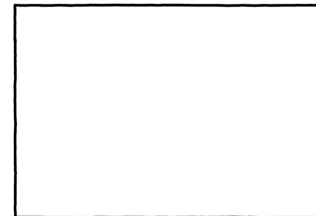
Symmetry



A



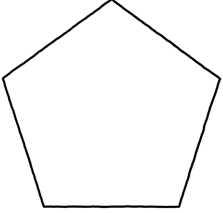

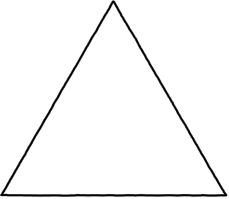
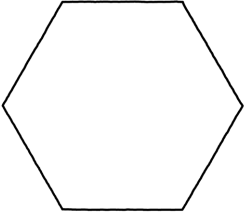
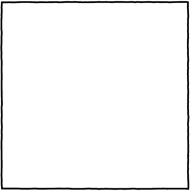
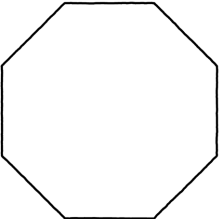
8



Name: _____

2D Shapes Chart


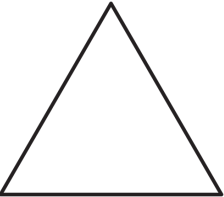
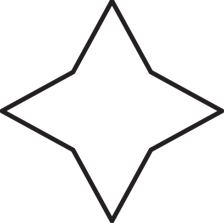
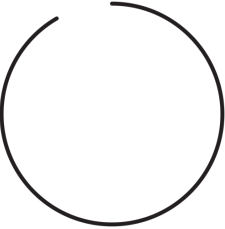
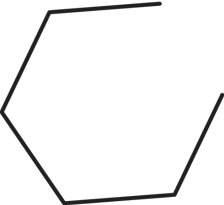
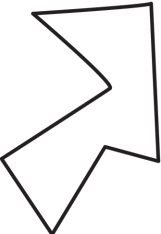
Directions: Fill in the chart below to match the description about each shape.

Shape	Number of Sides	Number of Vertices	Curved or Straight Edges?	Open or Closed?
				
				
				
				
				
				

Name: _____

2D Shapes Chart

Directions: Fill in the chart below to match the description about each shape.

Shape	Number of Sides	Number of Vertices	Curved or Straight Edges?	Open or Closed?
				
				
				
				
				
				

<div>1. Draw a closed shape with 3 sides and 3 vertices. Label the shape.</div> <div>_____</div>	<div>2. Draw an open shape with 5 sides.</div>	<div>3. Draw a closed shape with 8 sides and 8 vertices. Label the shape.</div> <div>_____</div>
<div>4. Draw an open shape with 2 sides.</div>	<div>5. Draw an open shape with 4 vertices.</div>	<div>6. Draw a shape with curved edges.</div>
<div>7. Draw a closed shape with 4 equal sides and 4 vertices. Label the shape.</div> <div>_____</div>	<div>8. Draw a closed shape with 5 sides and 5 vertices. Label the shape.</div> <div>_____</div>	<div>9. Draw an open shape with 7 sides.</div>

Name:

Draw Shapes

10. Draw a stop sign. Label the shape.

II. Draw an open shape with curved edges.

12. Draw a closed shape with 4 sides and 4 vertices. Label the shape.

13. Draw an open shape with 3 sides and 2 vertices.

14. Draw a slice of pizza. Label the shape.

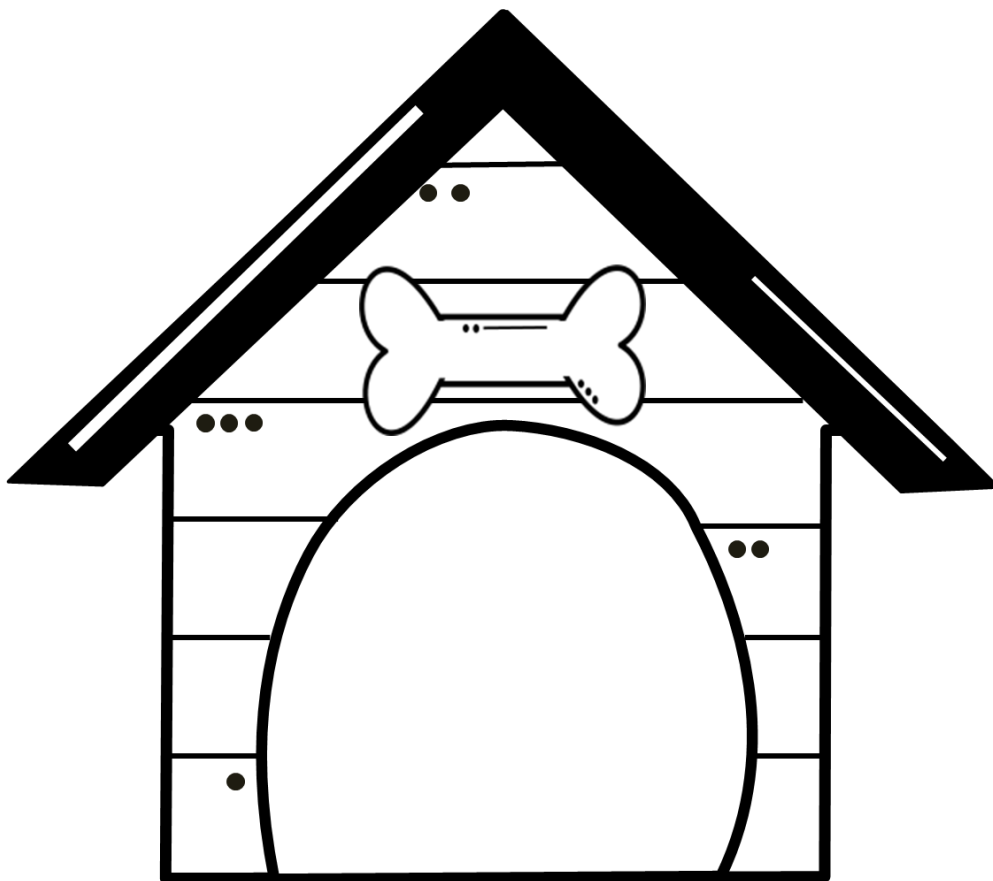
15. Draw an open shape with 10 sides and 9 vertices.

16. Draw a closed shape with 5 sides and 5 vertices. Label the shape.

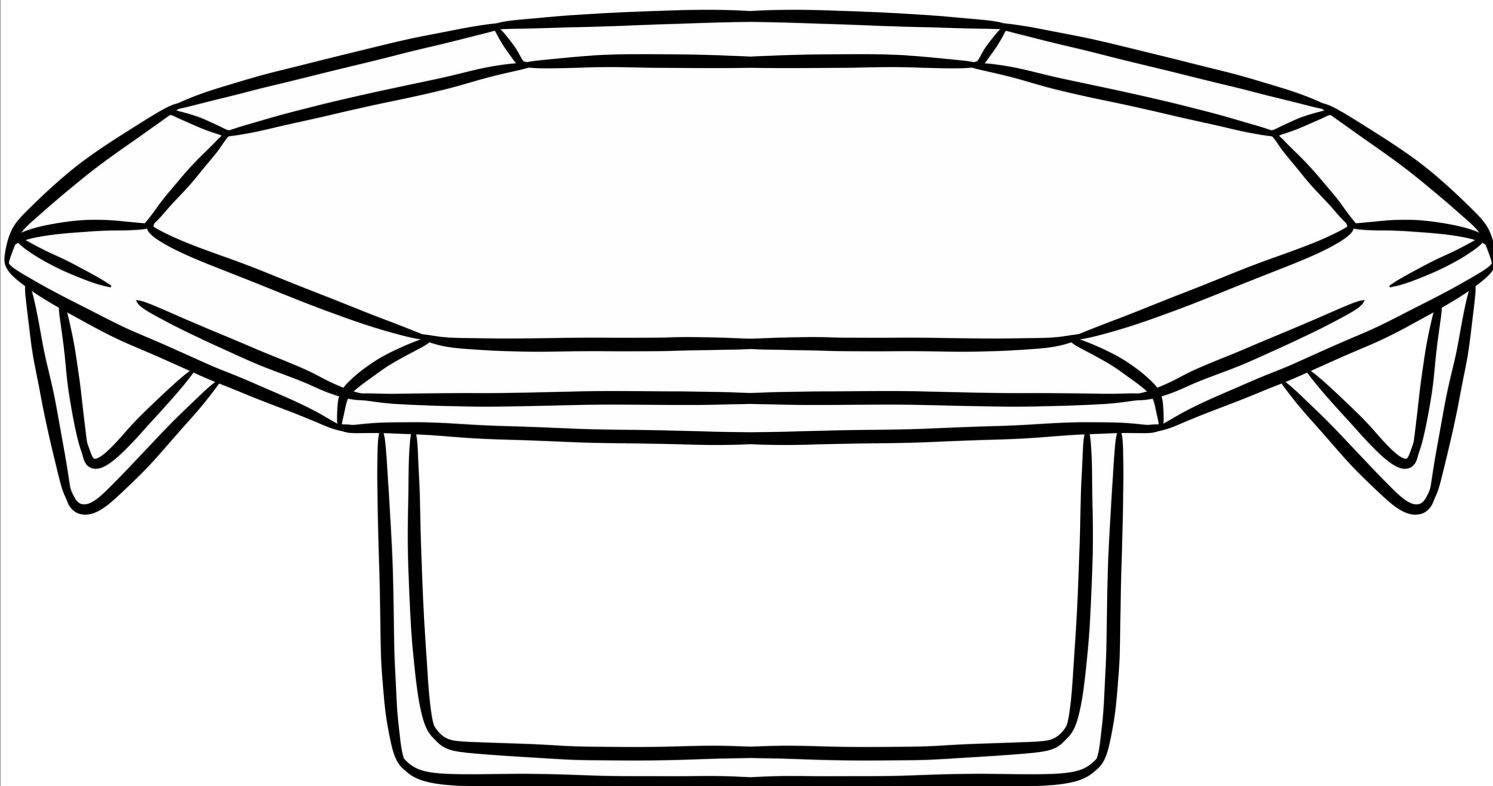
17. Draw a football field. Label the shape.

18. Draw a dollar bill. Label the shape.

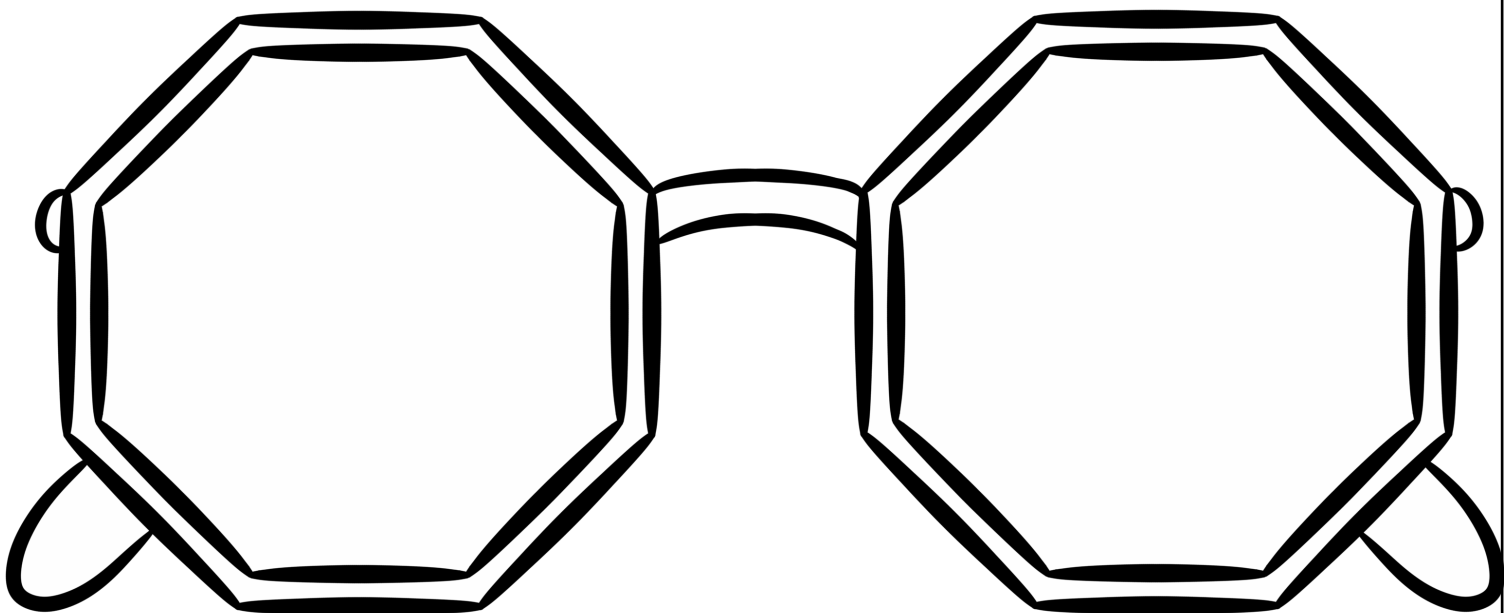
1



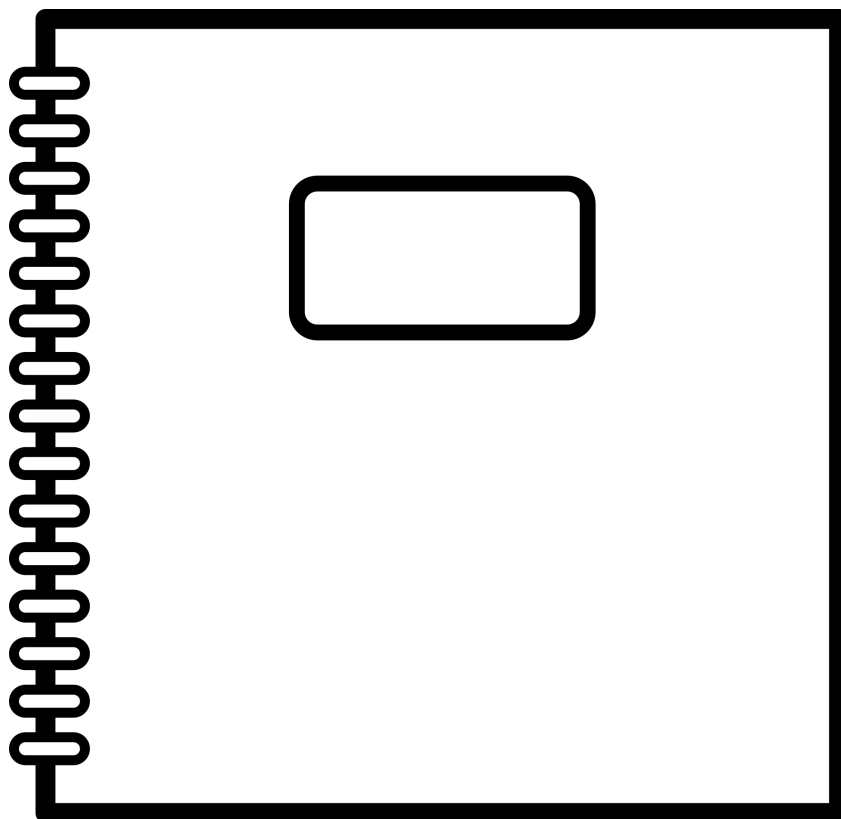
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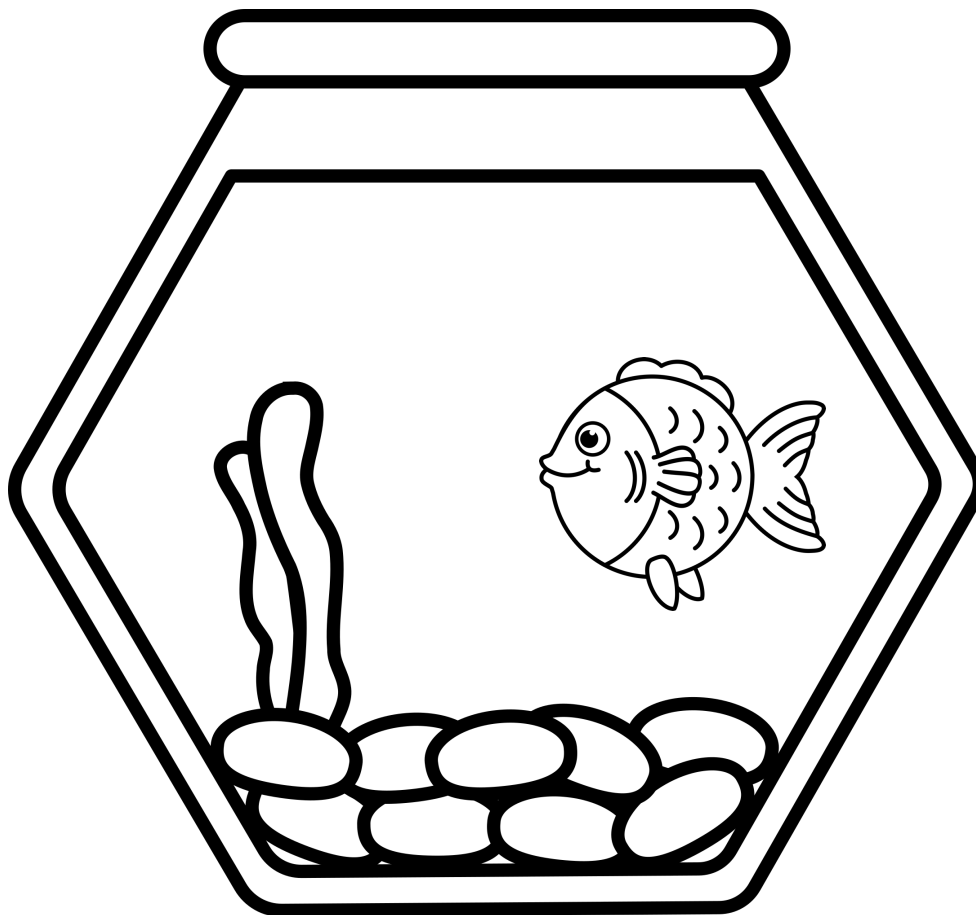
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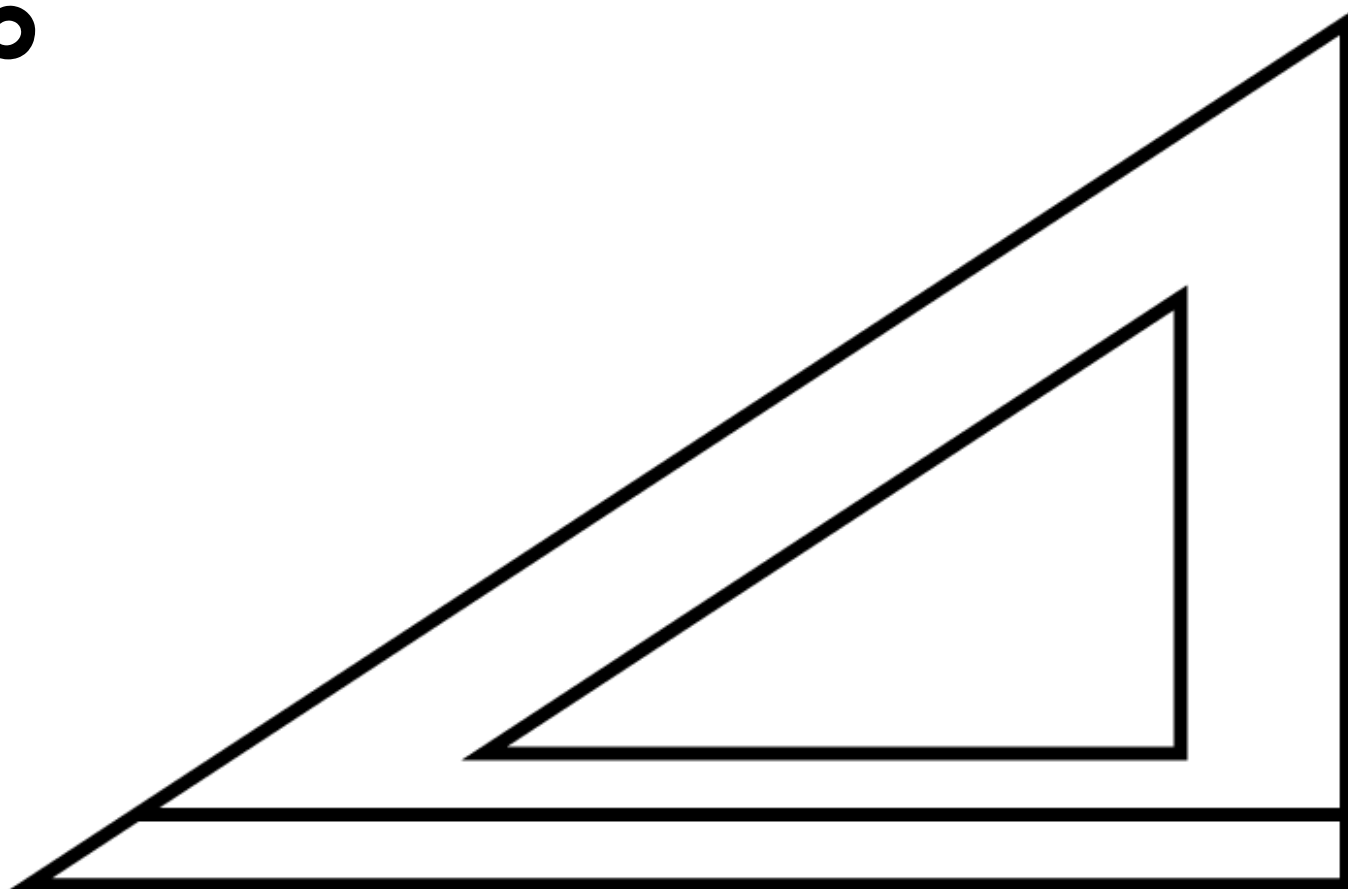
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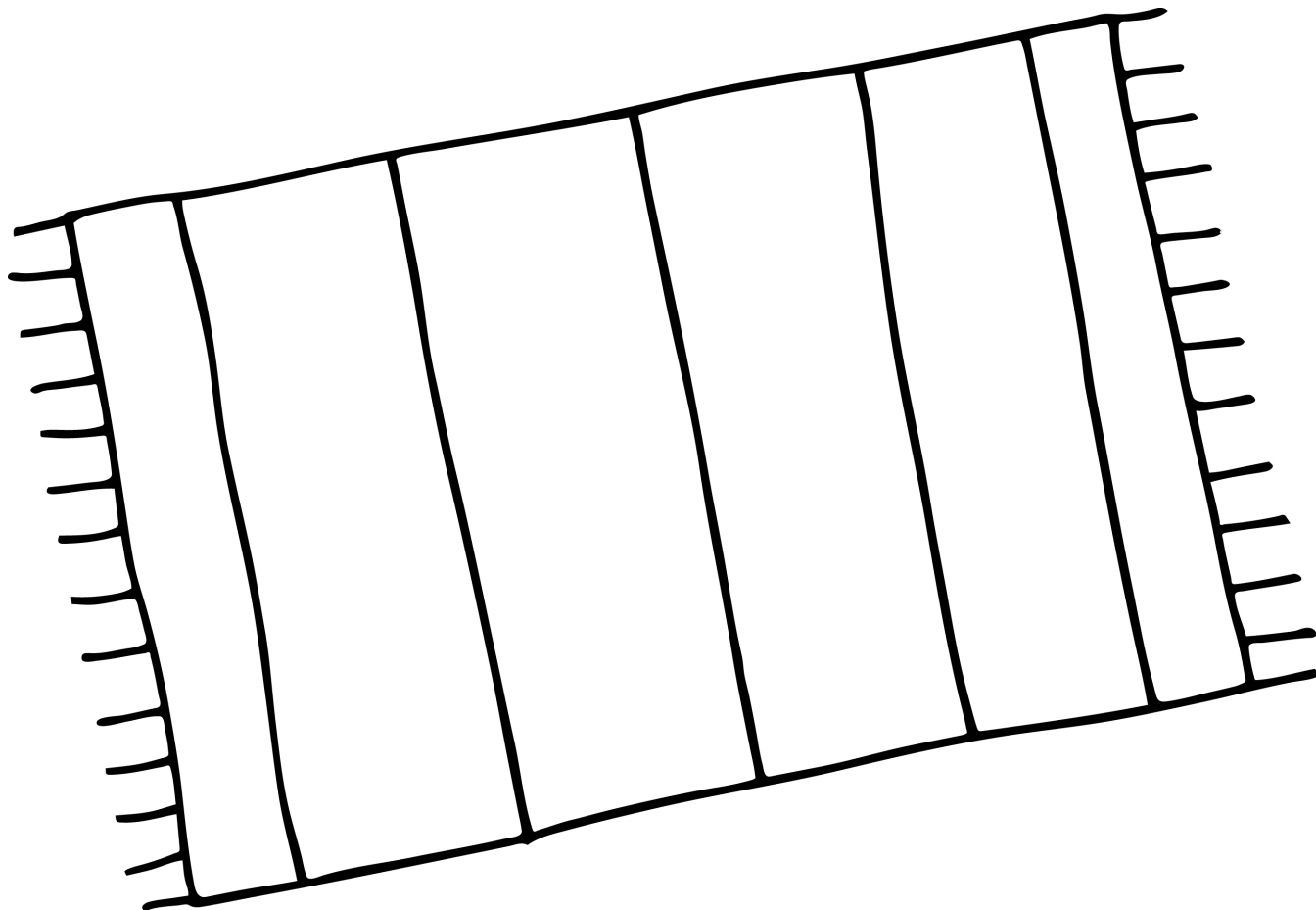
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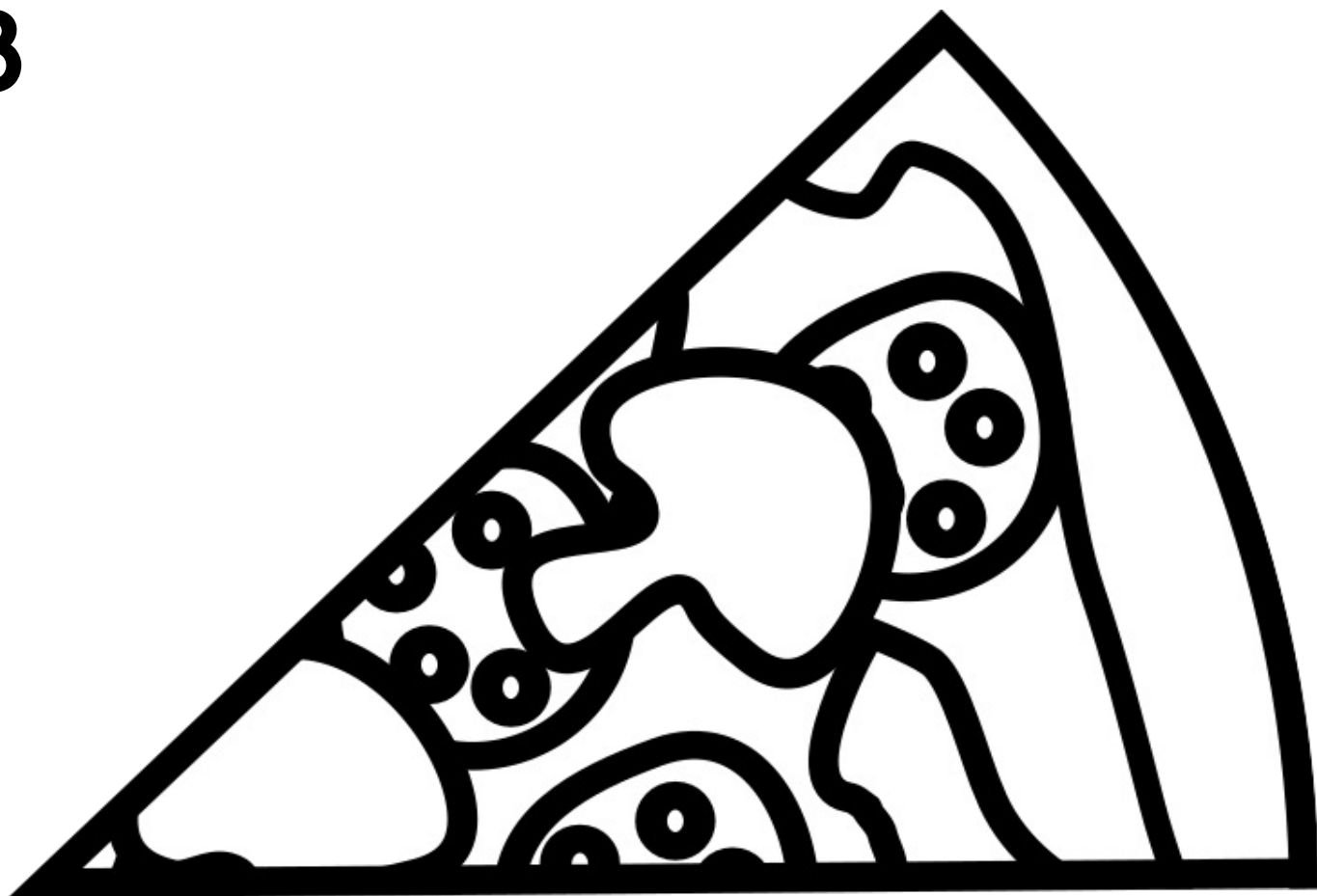
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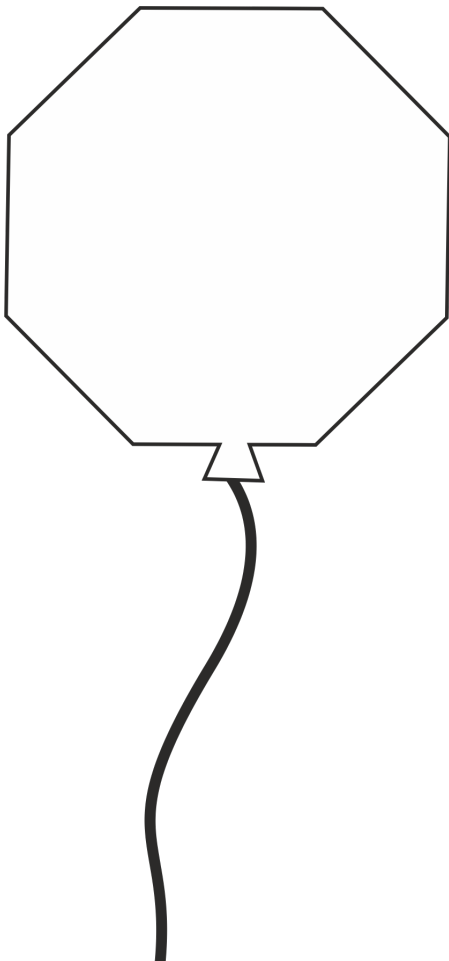
7



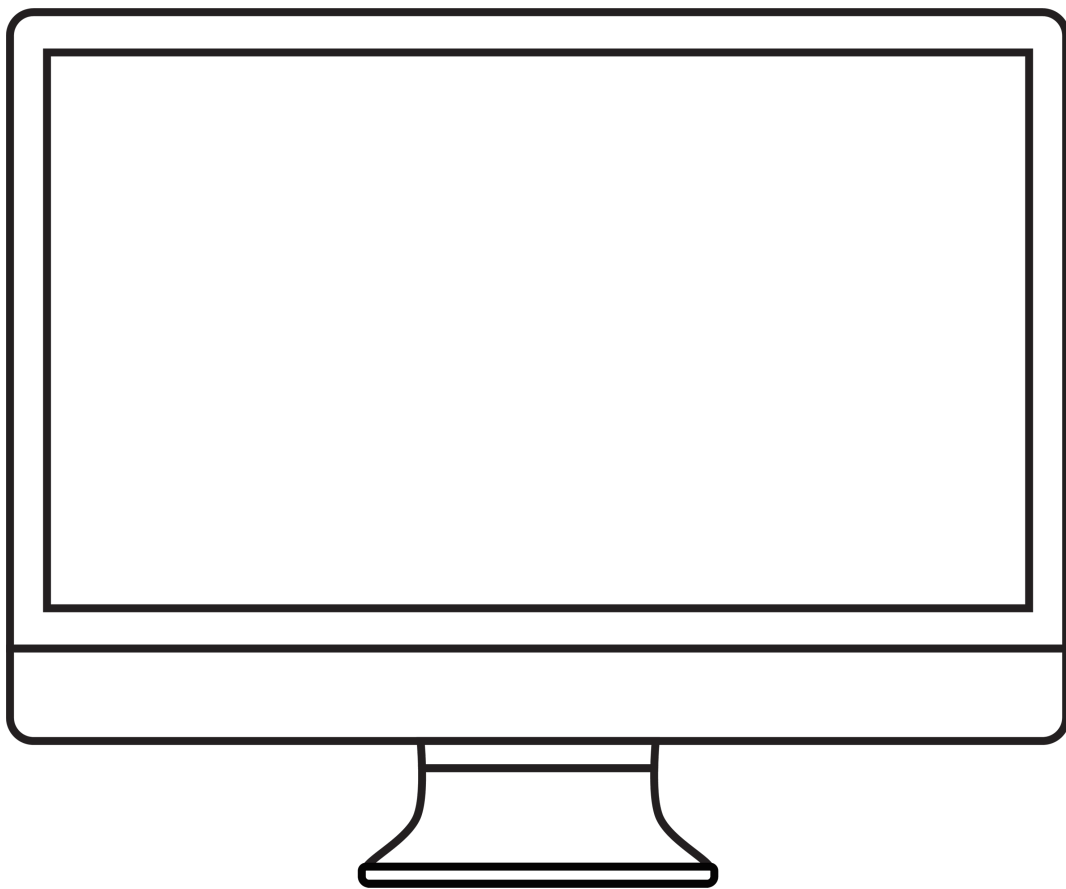
8



q



10



Name: _____

Shape Scavenger Hunt

Directions: Walk around the room to find hidden shapes. For each shape you find, record the answers below.

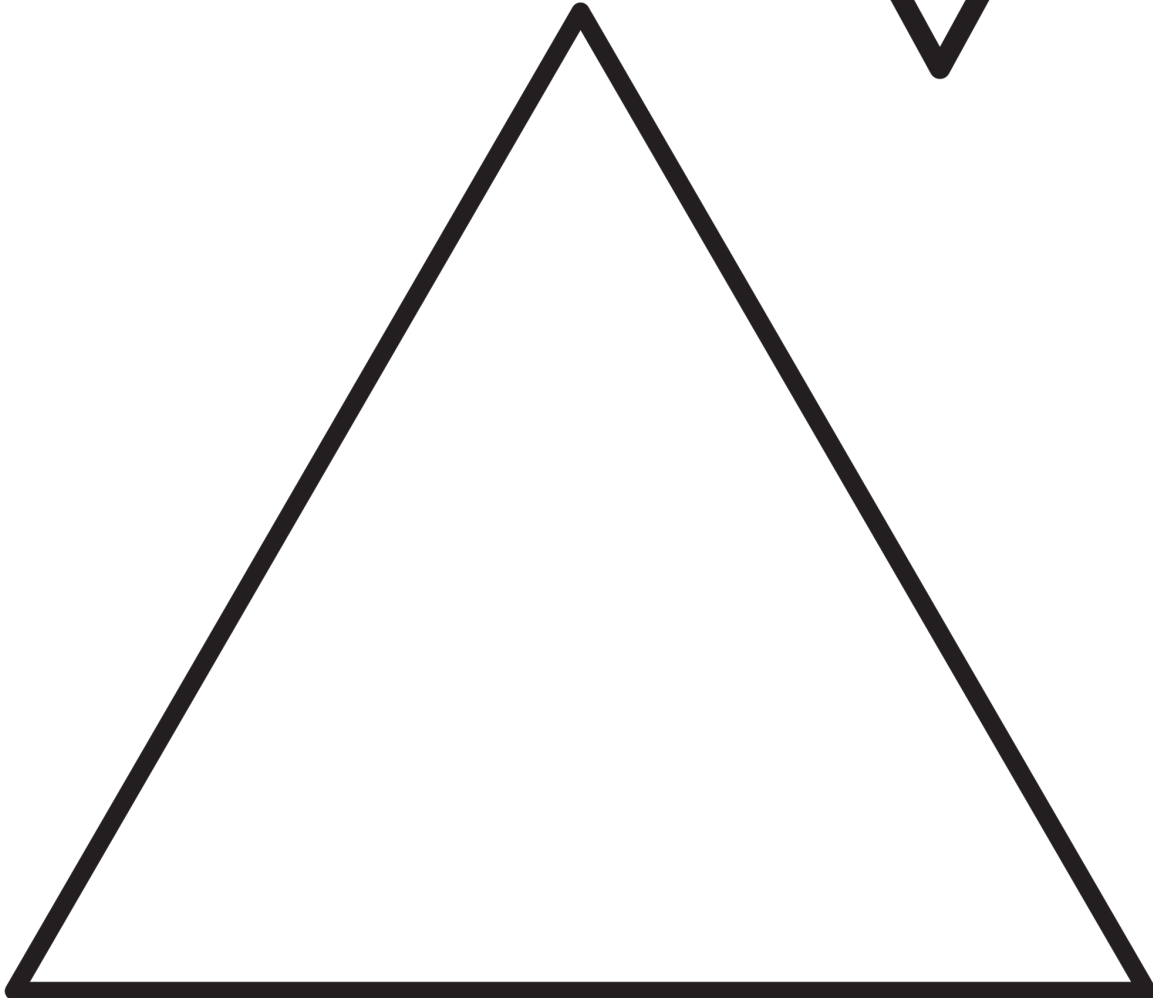
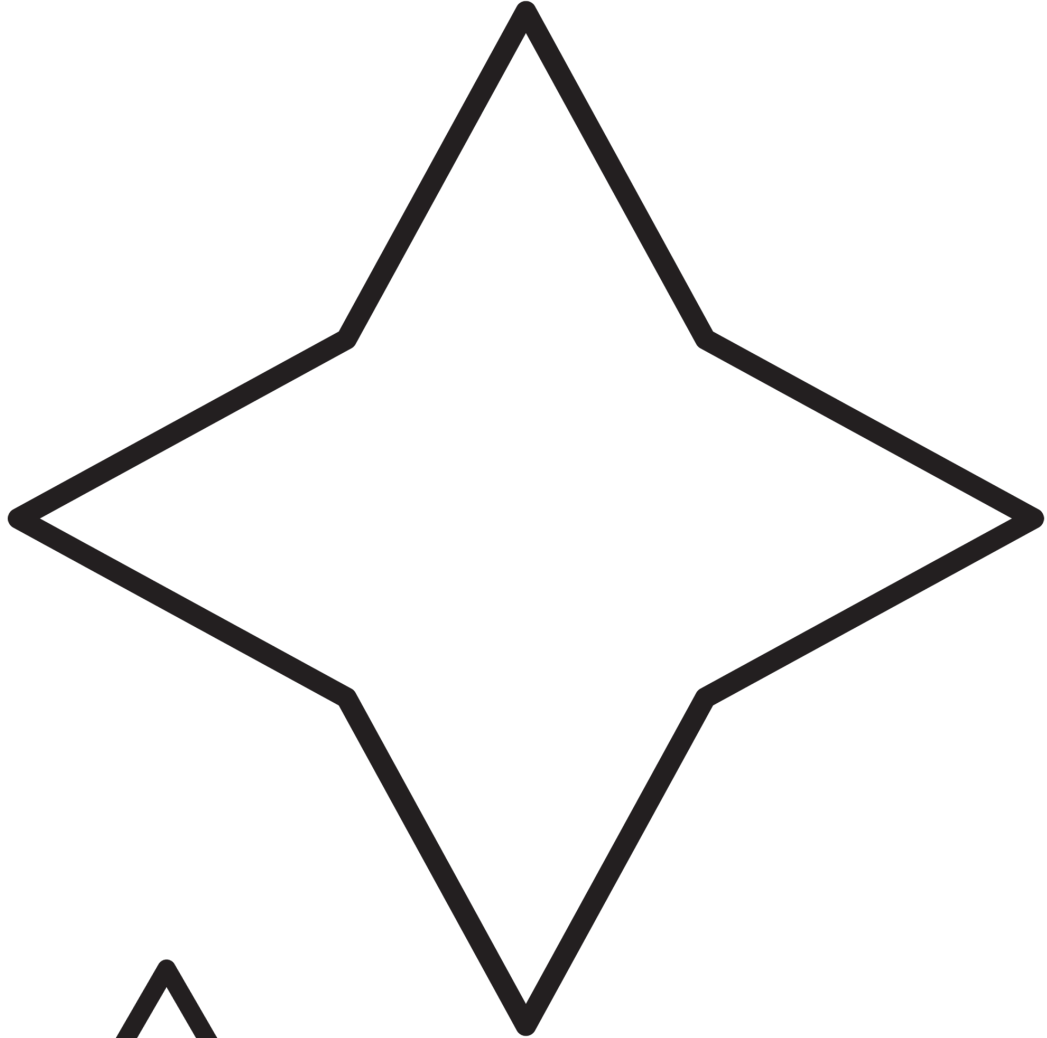
Number	Shape Name	Number of Sides	Number of Vertices	Closed or Open?
1				
2				
3				
4				
5				

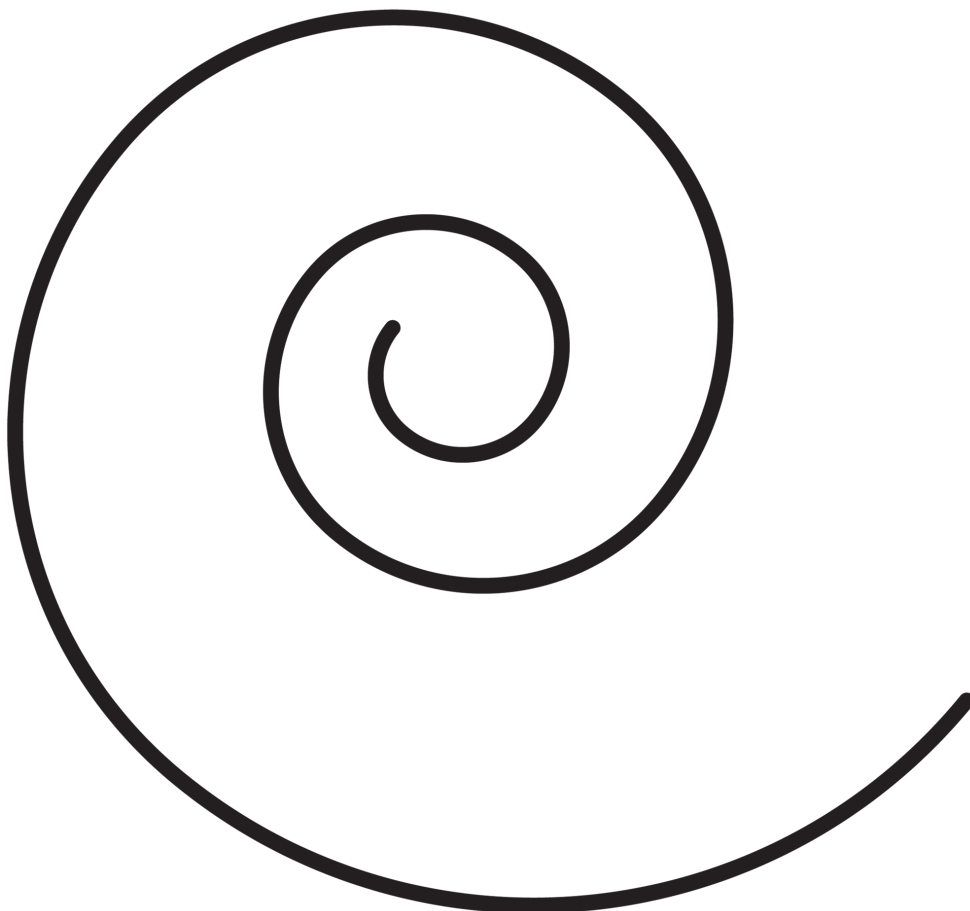
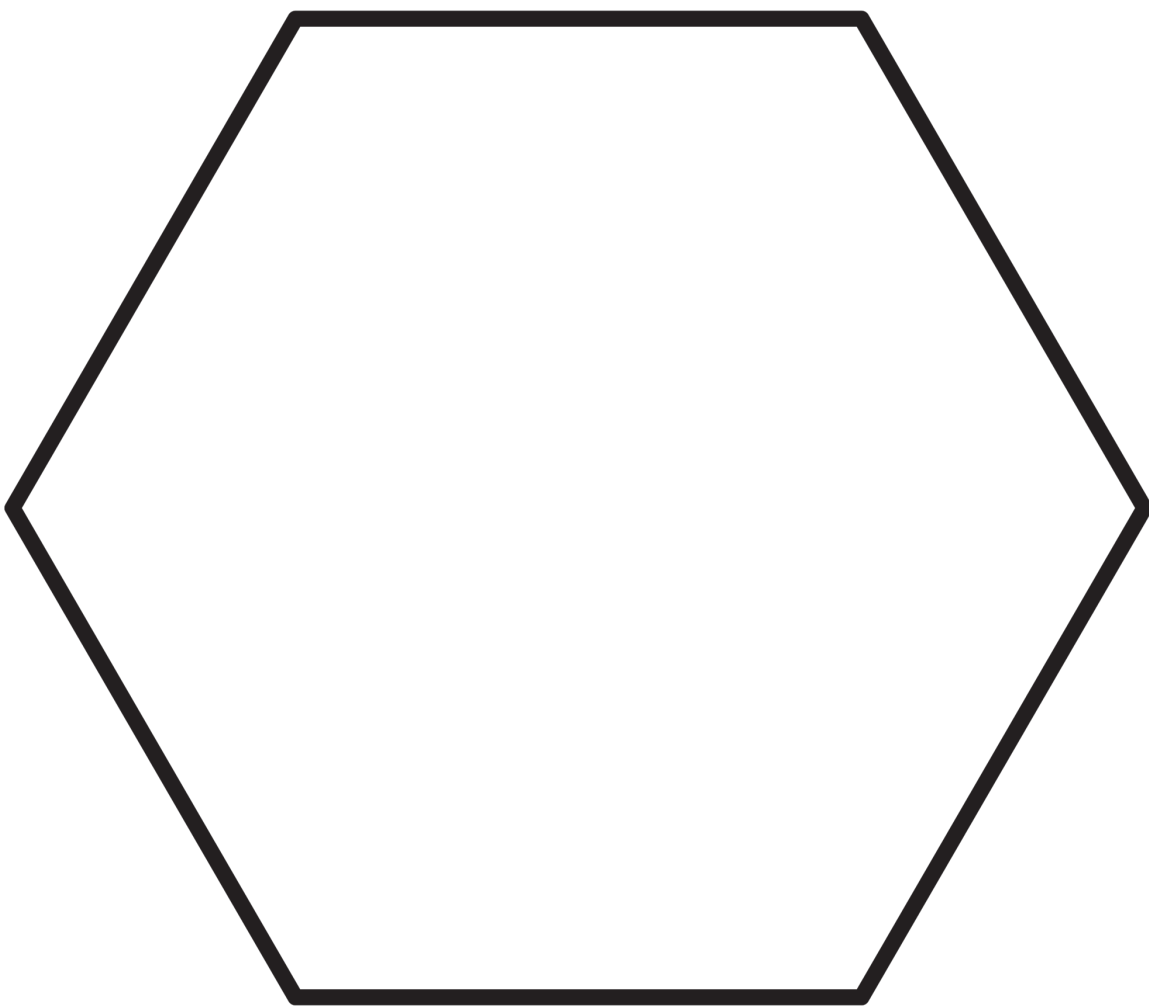
Name: _____

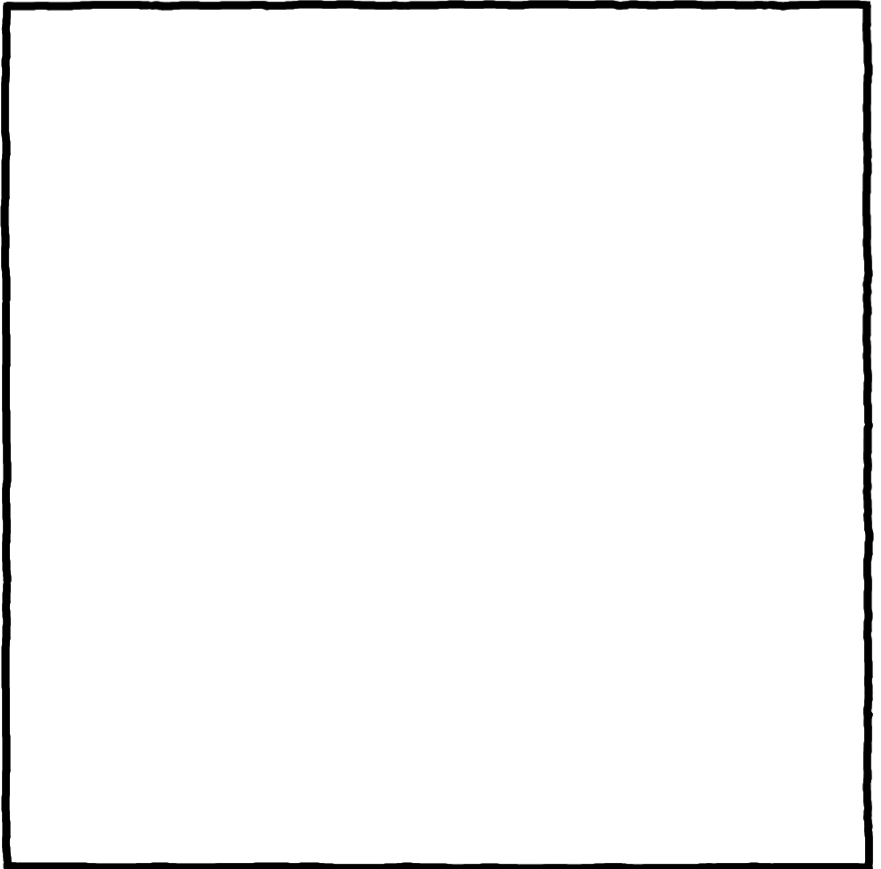
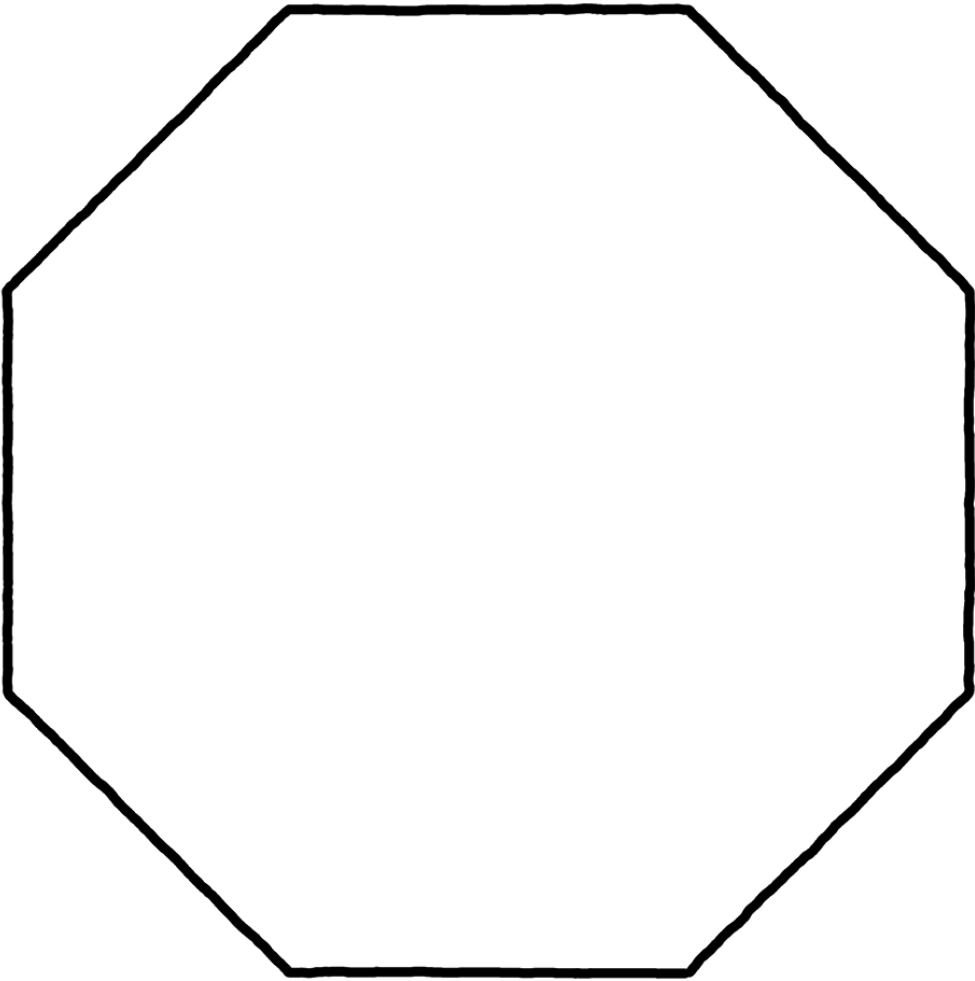
Shape Scavenger Hunt

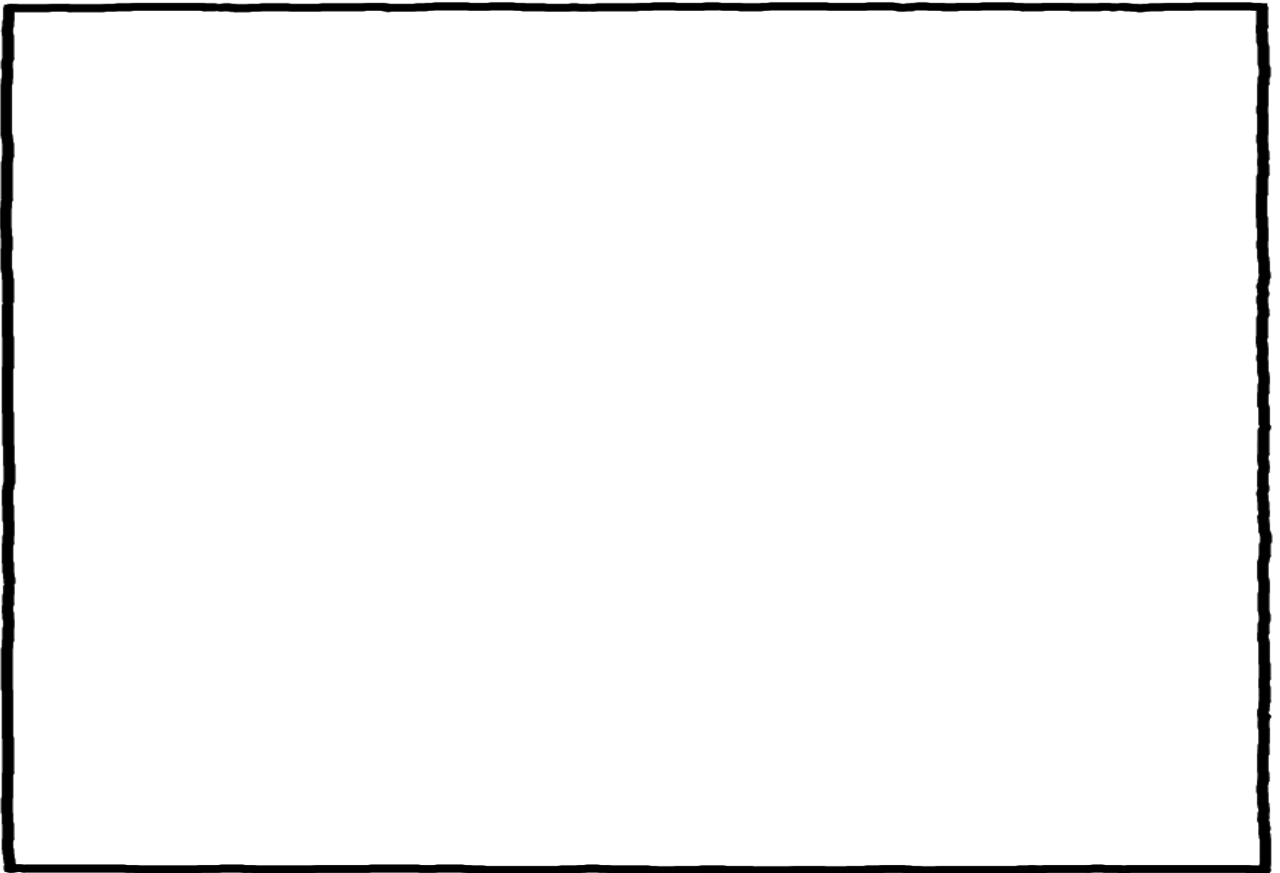
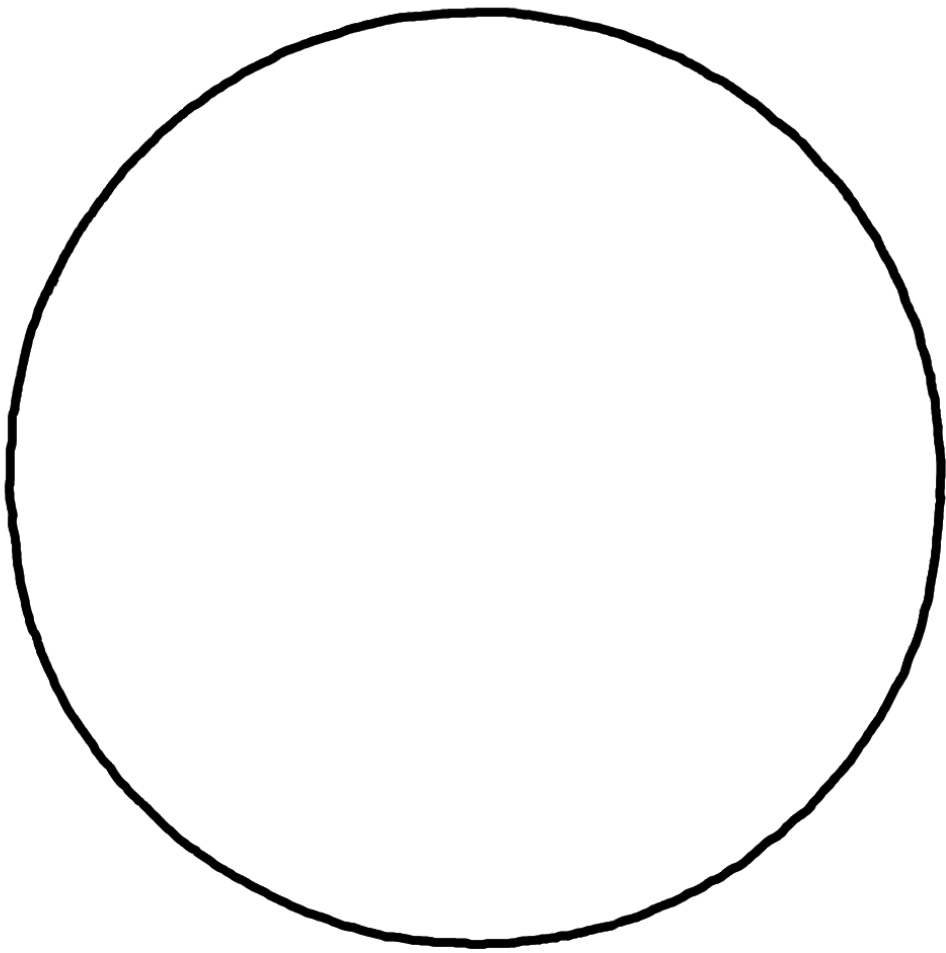
Directions: Walk around the room to find hidden shapes. For each shape you find, record the answers below.

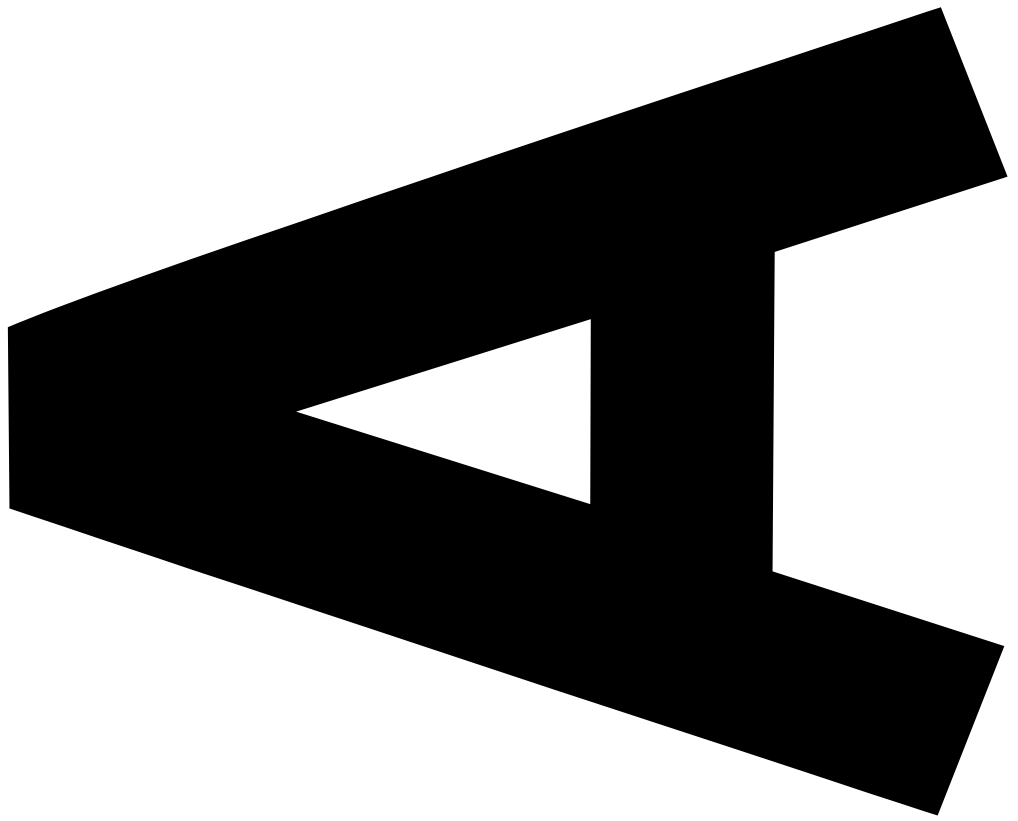
Number	Shape Name	Number of Sides	Number of Vertices	Closed or Open?
6				
7				
8				
9				
10				







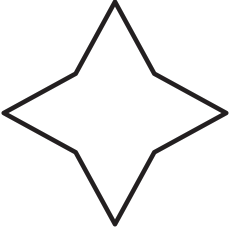
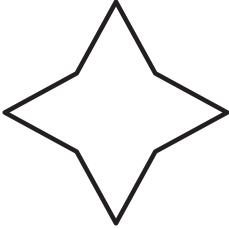
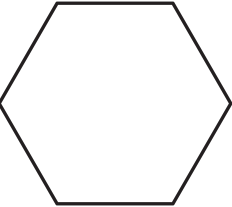
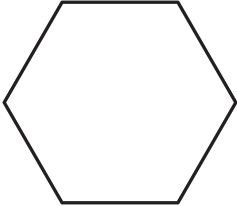
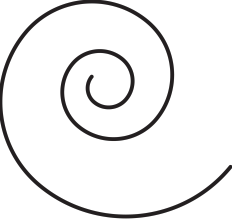
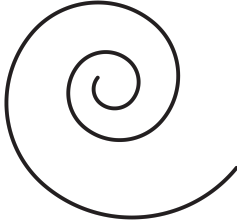

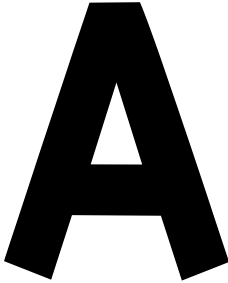
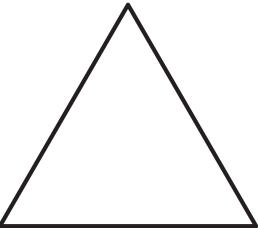
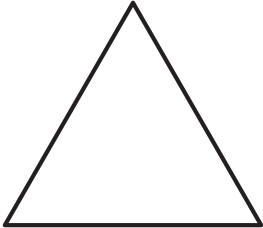




Name: _____

Symmetry

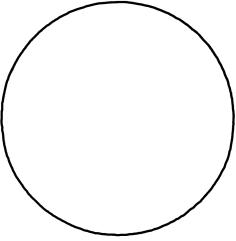
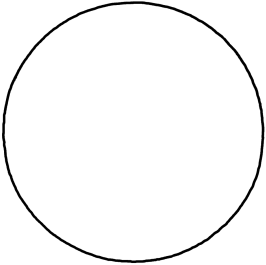
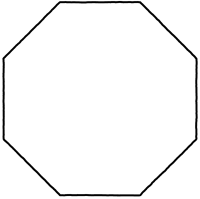
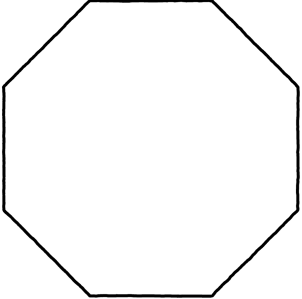

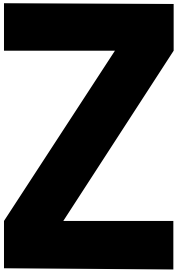
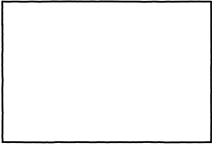
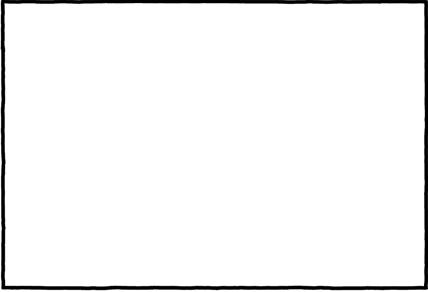
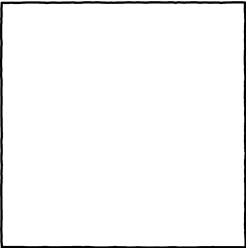
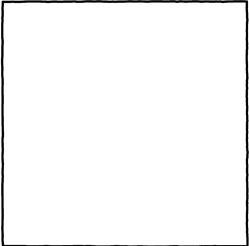
Directions: Fold the shapes to find lines of symmetry. Record your answers below.

Object	How many lines of symmetry?	Draw the lines of symmetry
		
		
		
		
		

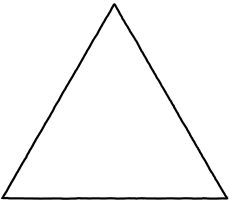
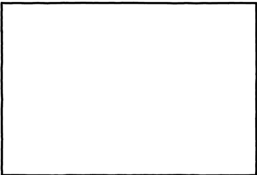
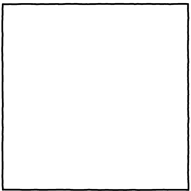
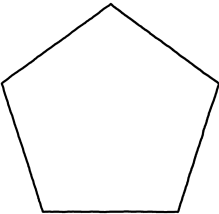
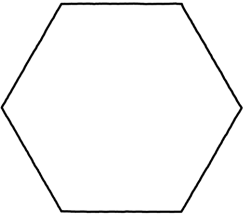
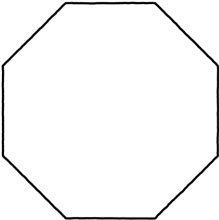
Name: _____

Symmetry

Directions: Fold the shapes to find lines of symmetry. Record your answers below.

Object	How many lines of symmetry?	Draw the lines of symmetry
		
		
		
		
		

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ENTIRE bundle!**

Shape	Picture	Description
Triangle		3 sides 3 vertices Closed Straight edges
Rectangle		4 sides 4 vertices Closed Straight edges
Square		4 equal sides 4 vertices Closed Straight edges
Pentagon		5 sides 5 vertices Closed Straight edges
Hexagon		6 sides 6 vertices Closed Straight edges
Octagon		8 sides 8 vertices Closed Straight edges

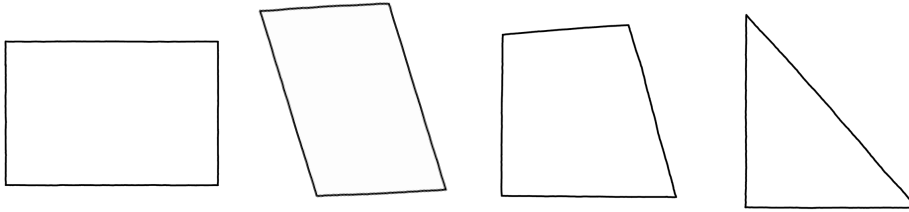
ANSWER KEY

2D
Shapes

By:

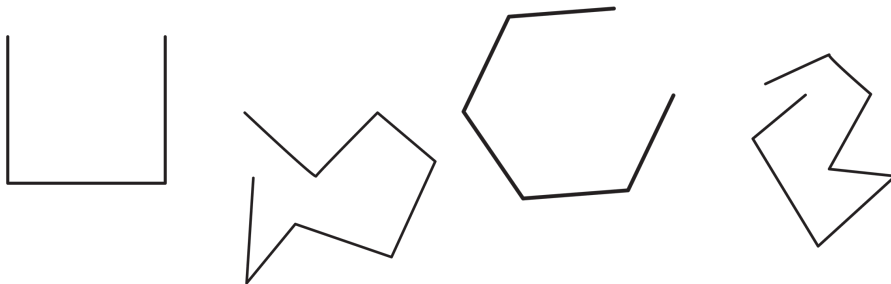
Closed Shapes

- No gaps in lines.
- All of the line segments connect.
- All sides meet at a point.



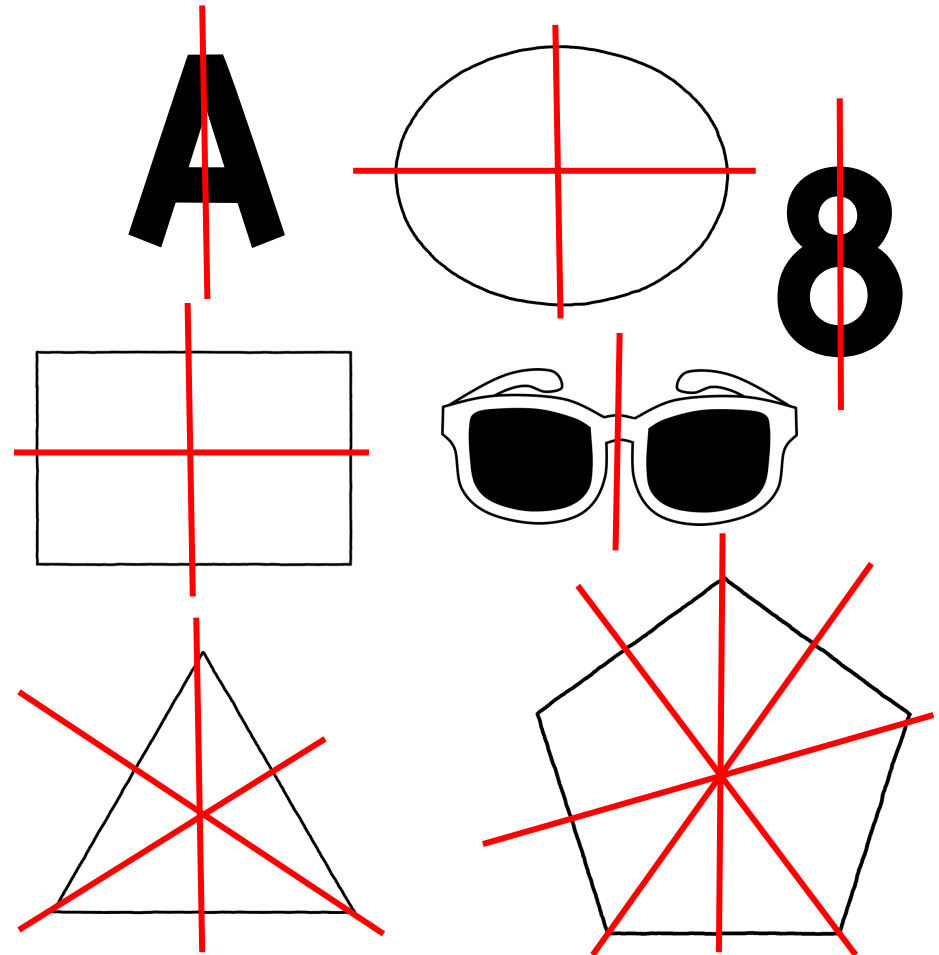
Open Shapes

- Have a gap in lines.
- At least one line segment is not connected to another line.



Symmetry ANSWER KEY

- A line of symmetry divides a shape into two congruent parts.
- A shape has symmetry if it can be folded about a line so that its two parts match exactly.

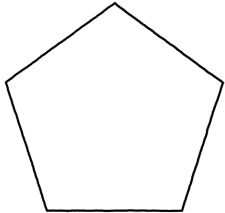
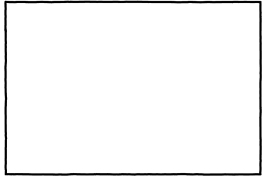
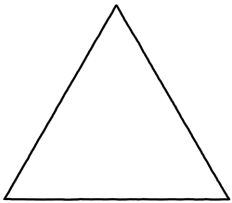
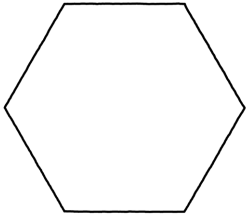
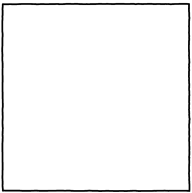
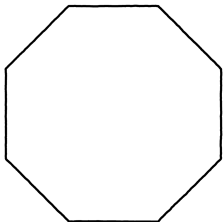


Name: _____

ANSWER KEY

2D Shapes Chart

Directions: Fill in the chart below to match the description about each shape.


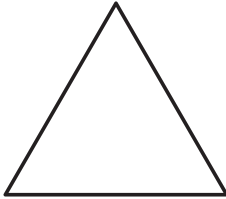
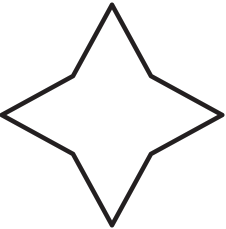
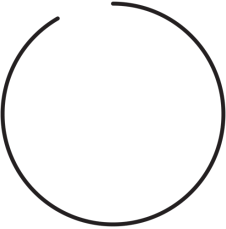
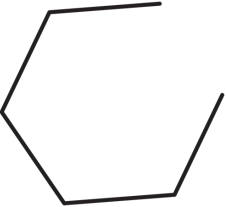
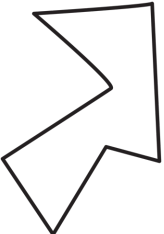
Shape	Number of Sides	Number of Vertices	Curved or Straight Edges	Open or Closed?
	5	5	Straight	Closed
	4	4	Straight	Closed
	3	3	Straight	Closed
	6	6	Straight	Closed
	4	4	Straight	Closed
	8	8	Straight	Closed

Name: _____

ANSWER KEY

2D Shapes Chart

Directions: Fill in the chart below to match the description about each shape.

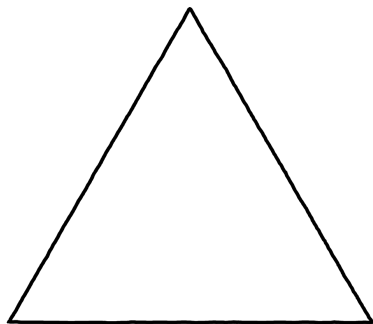
Shape	Number of Sides	Number of Vertices	Curved or Straight Edges?	Open or Closed?
	3	2	Straight	open
	3	3	Straight	closed
	8	8	Straight	closed
	0	0	Curved	open
	5	4	Straight	open
	7	7	Straight	Closed

Name: _____

ANSWER KEY

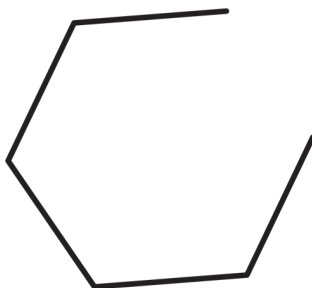
Draw Shapes

1. Draw a closed shape with 3 sides and 3 vertices. Label the shape.

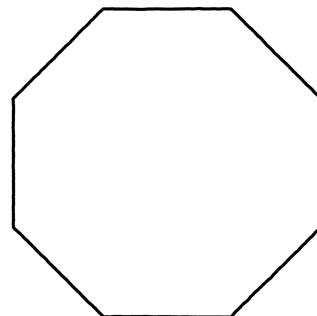


triangle

2. Draw an open shape with 5 sides.

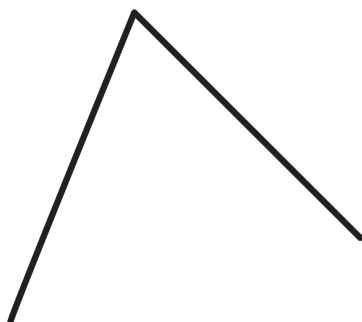


3. Draw a closed shape with 8 sides and 8 vertices. Label the shape.

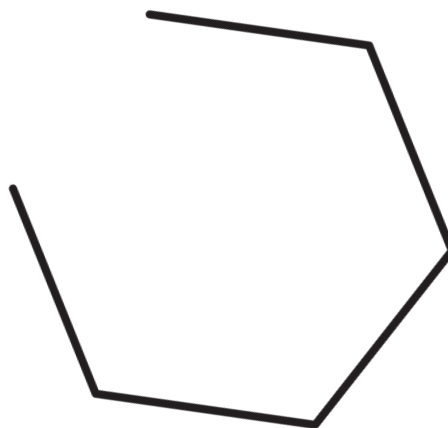


octagon

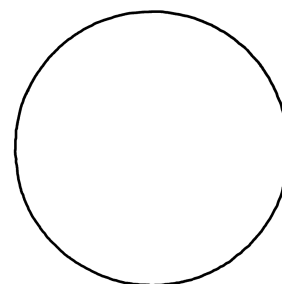
4. Draw an open shape with 2 sides.



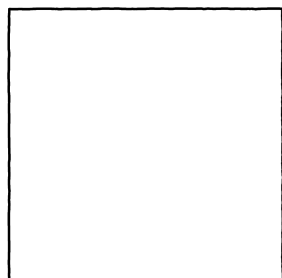
5. Draw an open shape with 4 vertices.



6. Draw a shape with curved edges.

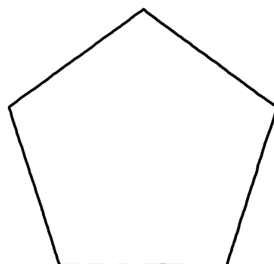


7. Draw a closed shape with 4 equal sides and 4 vertices. Label the shape.



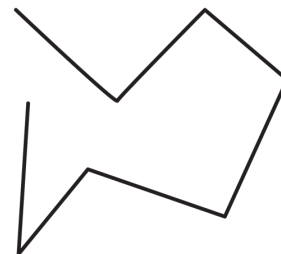
square

8. Draw a closed shape with 5 sides and 5 vertices. Label the shape.

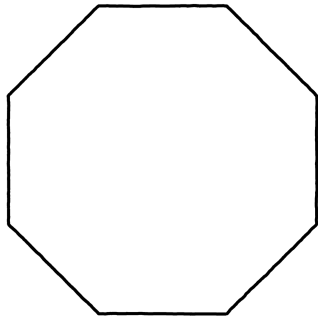


pentagon

9. Draw an open shape with 7 sides.

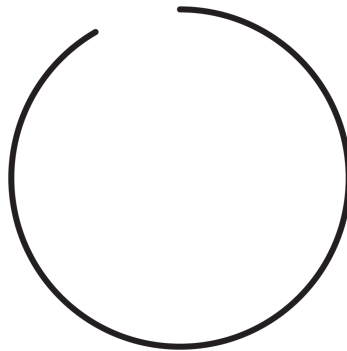


10. Draw a stop sign. Label the shape.

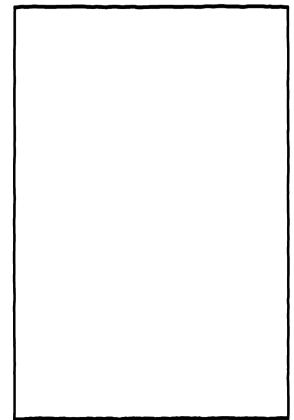


octagon

11. Draw an open shape with curved edges.



12. Draw a closed shape with 4 sides and 4 vertices. Label the shape.

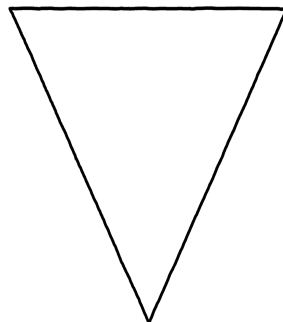


rectangle

13. Draw an open shape with 3 sides and 2 vertices.

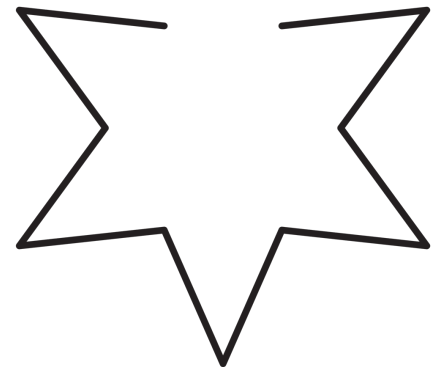


14. Draw a slice of pizza. Label the shape.

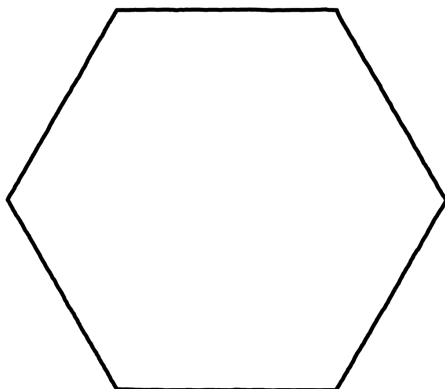


triangle

15. Draw an open shape with 10 sides and 9 vertices.

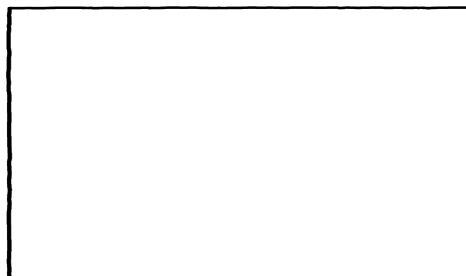


16. Draw a closed shape with 5 sides and 5 vertices. Label the shape.



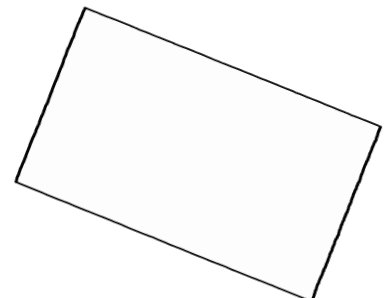
hexagon

17. Draw a football field. Label the shape.



rectangle

18. Draw a dollar bill. Label the shape.



rectangle

Name: _____

ANSWER KEY

Shape Scavenger Hunt

Directions: Walk around the room to find hidden shapes. For each shape you find, record the answers below.

Number	Shape Name	Number of Sides	Number of Vertices	Closed or Open?
1	Pentagon	5	5	closed
2	Octagon	8	8	closed
3	Octagon	8	8	closed
4	Square	4	4	closed
5	Hexagon	6	6	closed

Name: _____

ANSWER KEY

Shape Scavenger Hunt

Directions: Walk around the room to find hidden shapes. For each shape you find, record the answers below.

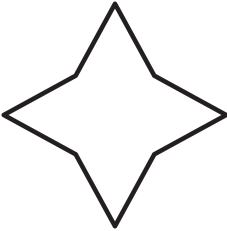
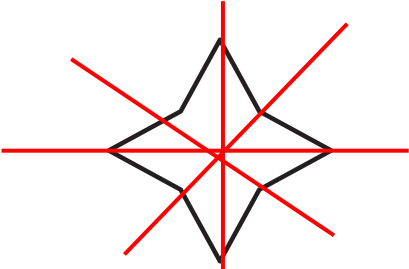
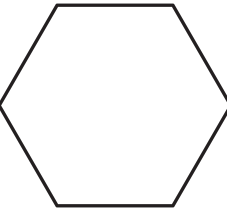
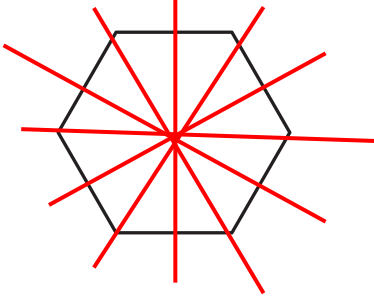
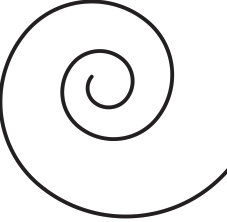
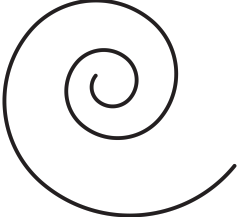

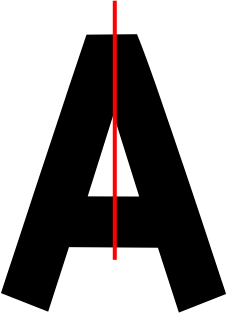
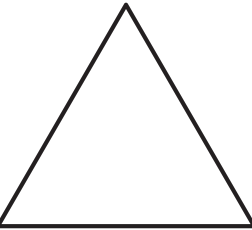
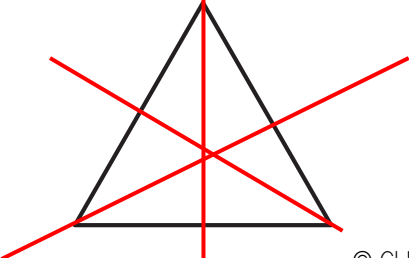
Number	Shape Name	Number of Sides	Number of Vertices	Closed or Open?
6	Triangle	3	3	closed
7	Rectangle	4	4	closed
8	Triangle	3	3	closed
9	Octagon	8	8	closed
10	Rectangle	4	4	closed

Name: _____

ANSWER KEY

Symmetry

Directions: Fold the shapes to find lines of symmetry. Record your answers below.

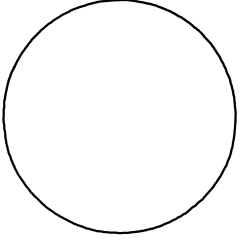
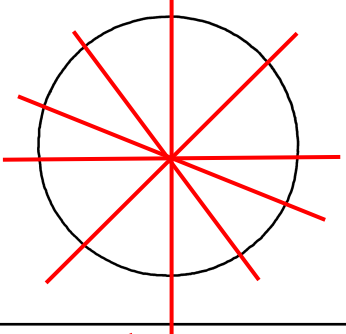
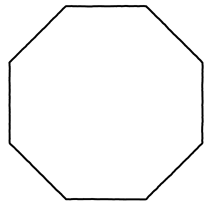
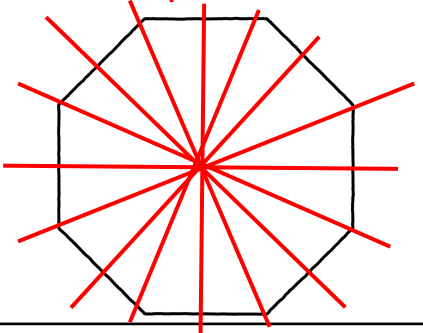
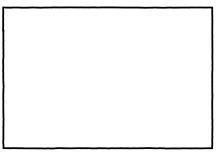
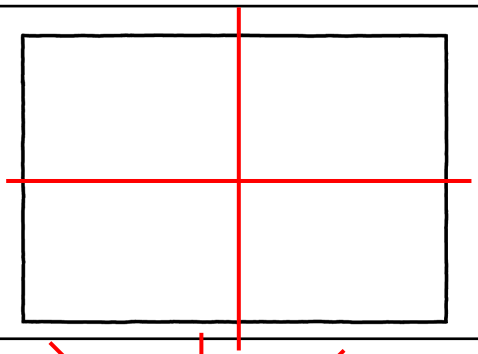
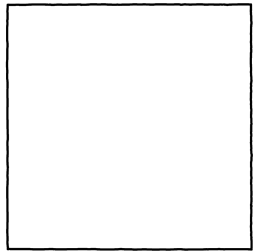
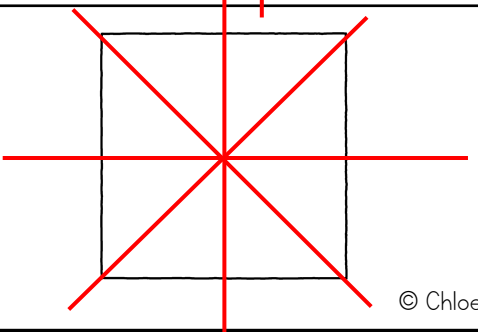
Object	How many lines of symmetry?	Draw the lines of symmetry
	4	
	6	
	0	
	1	
	3	

Name: _____

ANSWER KEY

Symmetry

Directions: Fold the shapes to find lines of symmetry. Record your answers below.

Object	How many lines of symmetry?	Draw the lines of symmetry
	infinite	
	8	
Z	0	Z
	2	
	4	

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How to Use:

- Print the two cheat

Math Engagement Cheat Sheet

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- ☐ Give students the answer. Have students work backward and determine what the problem could be that would lead to the answer. Example: The answer is 24. Students would have to write a word problem.

Math Engagement Cheat Sheet

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Independent
Work

- ☐ Use individual whiteboards or allow students to use dry-erase markers on their desks.
- ☐ Have students create their own math problem on a sticky note or an index card. Crumple up the problem and throw it into a pile in the middle of the room. Have students go and pick a problem from the pile to solve.
- ☐ Include student names and interests in word problems.
- ☐ Try a 'must do' and 'may do' time. Give students a list of activities that they must get complete and a list that students 'may do' after the 'must do' tasks. This gives students choices, while still focusing on the important tasks.
- ☐ Write numbers on sticky notes. Tape one sticky note to the back of each student (without them seeing the number). Students will go around to different classmates and give them clues to guess the number on their back. Students may need to carry around whiteboards to help solve problems. Example: A student has 36 on their back. The student could give a clue of '6 groups of 6' or '72 ÷ 2 = 36'. Instead of 36, the student could say 'I have 14 of them. How many do I have now?'
- ☐ Print a worksheet as a poster. Go to printer settings and select 'poster' size. Print and tape together the pages to create a large poster. Students can now solve problems on the poster. Instead of a regular worksheet.

Assessment
& Quick
Checks

Partner
Work

- ☐ Have students create an anchor chart that shows the step-by-step directions of how to solve a math problem.
- ☐ Have students solve math problems as they play a board game.
- ☐ Cut apart a worksheet so that one problem is on each piece of paper. Put the pieces of paper inside a baggie. Have students take turns answering the questions by pulling out a problem and solving it on a recording sheet.
- ☐ Only one student can write at a time. The other students will coach and give step-by-step instructions on how to solve the problem. The coach will write the answer and the student will write the problem.

Cheat Sheet

for Increasing Engagement During Math

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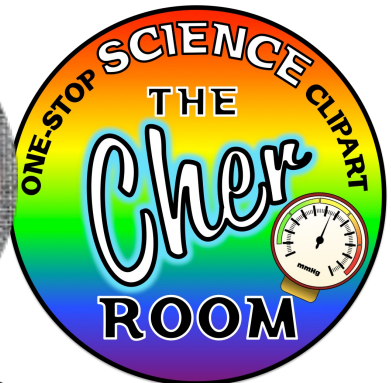
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