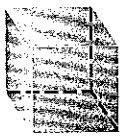
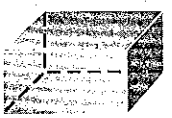
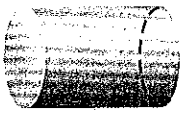
Solid Figures

Name _____

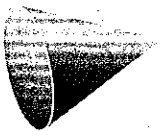

cube


pyramid


rectangular prism


cylinder


sphere


cone

Write the name of the solid figure each object is shaped like.

1. 
cube

2. 

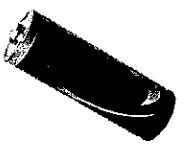
3. 

4. 

5. 

6. 

7. 

8. 

Write the name of the figure.

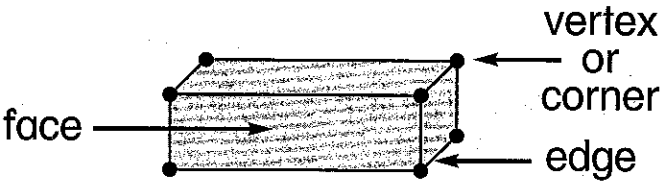
9. It has 1 curved surface and 1 flat surface. _____

10. It has 6 flat surfaces that are the same shape and the same size. _____

Faces, Edges, Vertices

Name _____

Solid figures that cannot roll have faces, edges, and vertices.

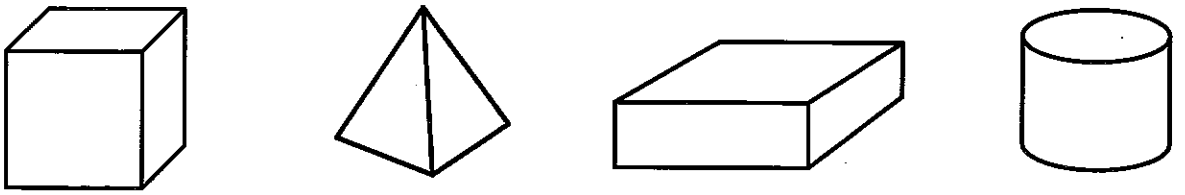


1. Color the faces you see 

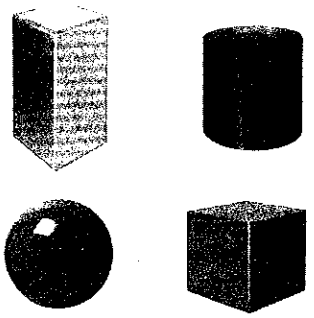
2. Trace the edges you see 

.
3. Put a 

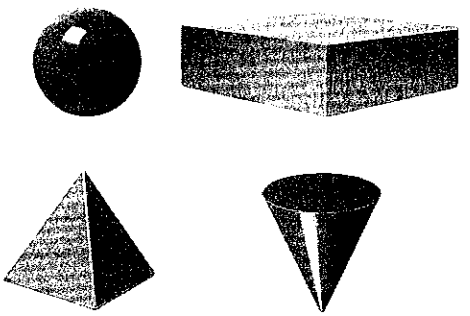
● on each vertex you see.



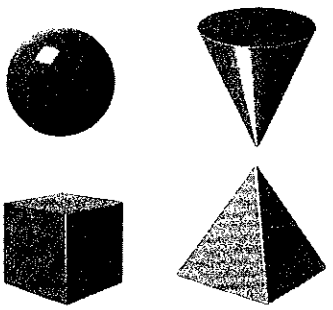
4. Circle the figures that have 12 edges.



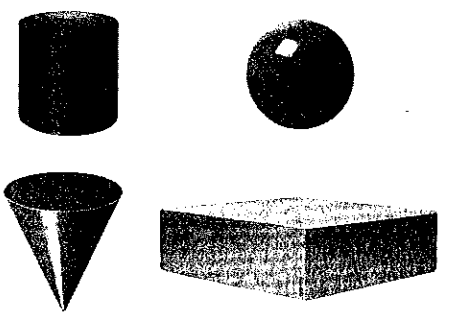
5. Circle the figures that do not have any square faces.



6. Circle the figure that has only one vertex.



7. Circle the figures that have no vertices.



Use with Lesson 2, text pages 249–250.

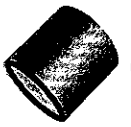
Explore Plane Figures

Name _____

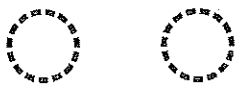
Use a  or  to make a  square.

Use a  to make a  rectangle.

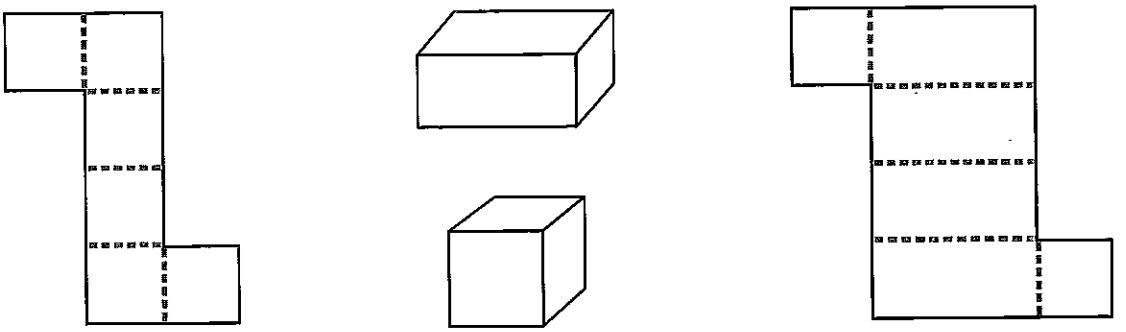
Use a  to make a  triangle.

Use a  or  to make a  circle.

Trace the flat surfaces of the shapes. Write how many.

	Solid Figure	Shapes of Flat Surfaces Traced	Number of Flat Surfaces
1.	cylinder		2
2.	cube		
3.	rectangular prism		
4.	pyramid		

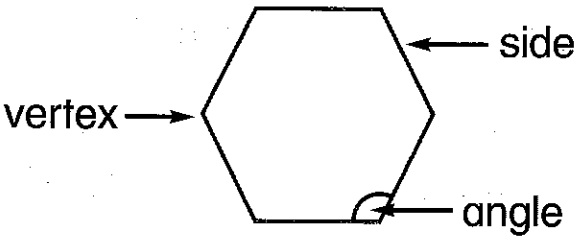
Imagine folding these flat surfaces on the dashed lines. Draw a line to the solid figure that these flat surfaces would make.

5. 

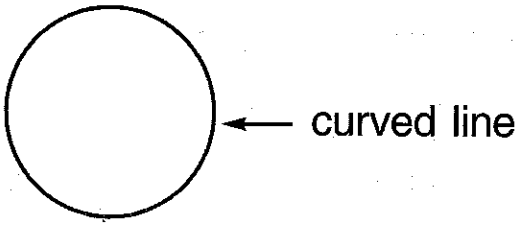
Plane Figures

Name _____

Plane figures with straight lines have sides, vertices, and angles.

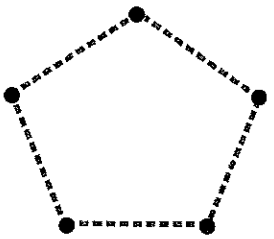


Plane figures with curved lines have 0 sides, 0 vertices, and 0 angles.



Draw lines to make each closed plane figure.
Write how many sides, vertices, and angles.

1. pentagon

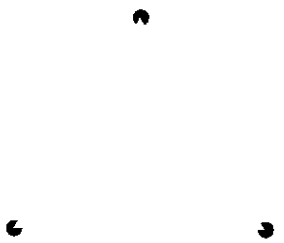


5 sides

5 vertices

5 angles

2. triangle



____ sides

____ vertices

____ angles

3. rectangle

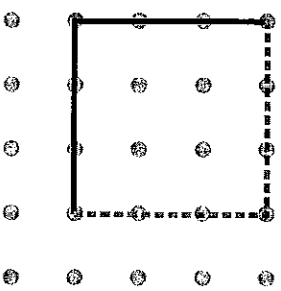
____ sides

____ vertices

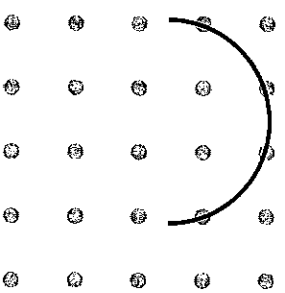
____ angles

Draw each figure on the dot paper below.

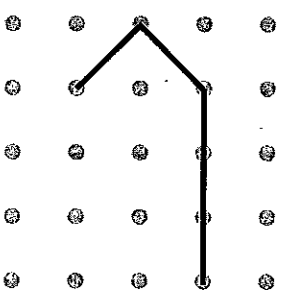
4. square



5. circle



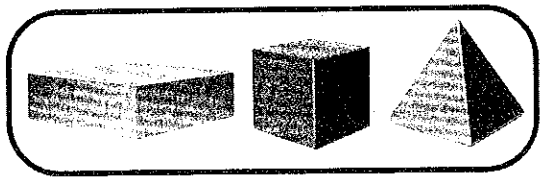
6. pentagon



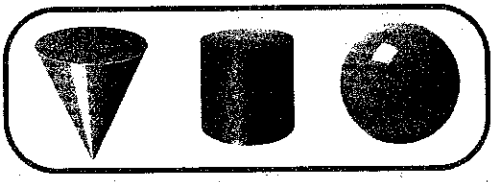
Sort Figures

Name _____

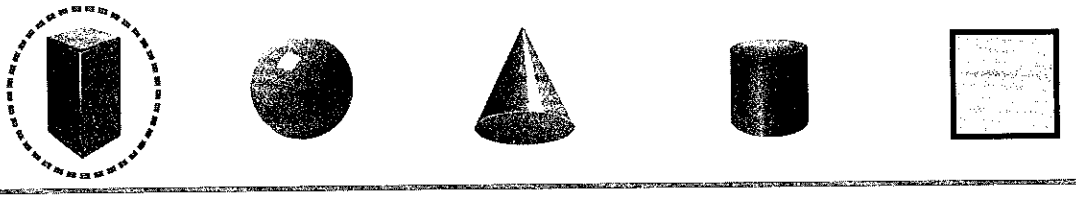
These solid figures have flat surfaces and edges.



These solid figures have curved surfaces and no edges.



1. Circle figures that have at least one vertex.



2. Circle figures with more than one face.

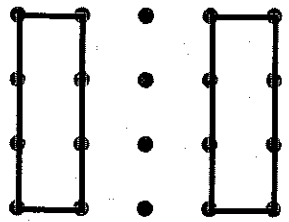
3. Circle figures with curved and flat surfaces.

4. Circle figures with 5 or more faces.

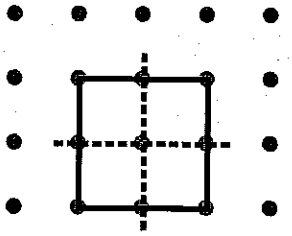
5. Circle figures that have no vertices.

Congruent Figures; Lines of Symmetry

Name _____



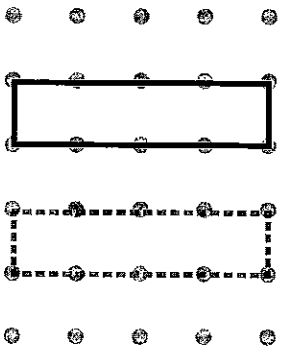
congruent figures



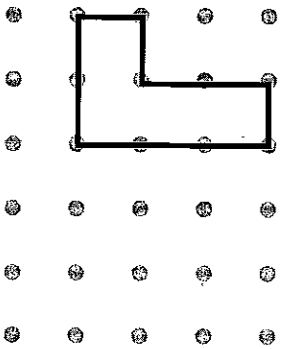
more than one line of symmetry

Draw a figure that is congruent to the given figure.

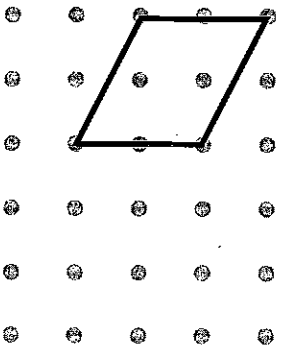
1.



2.

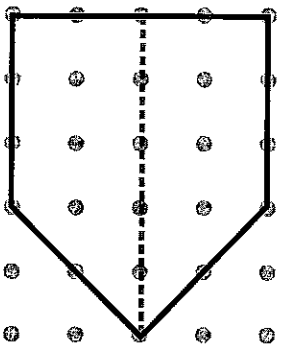


3.

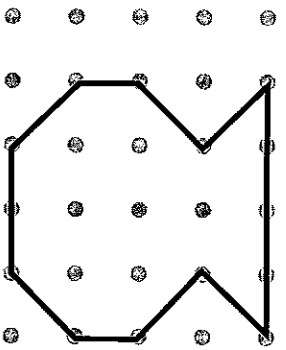


Draw one line of symmetry.

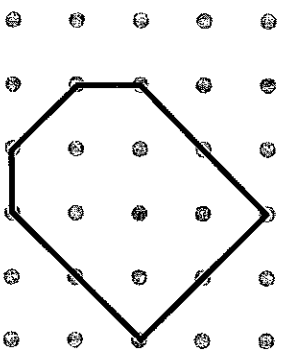
4.



5.

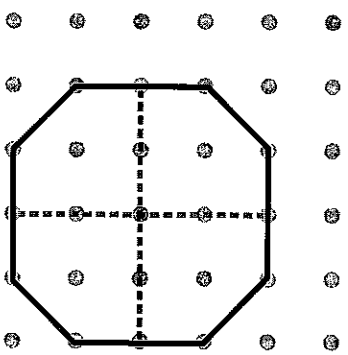


6.

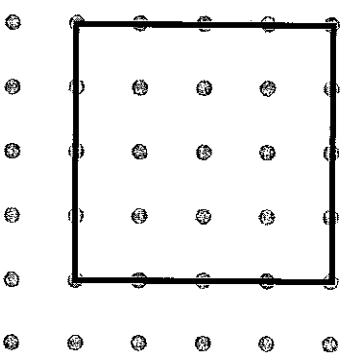


Draw all the lines of symmetry for each figure.

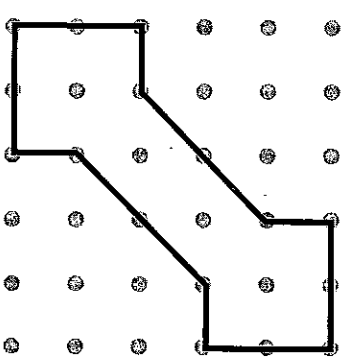
7.



8.



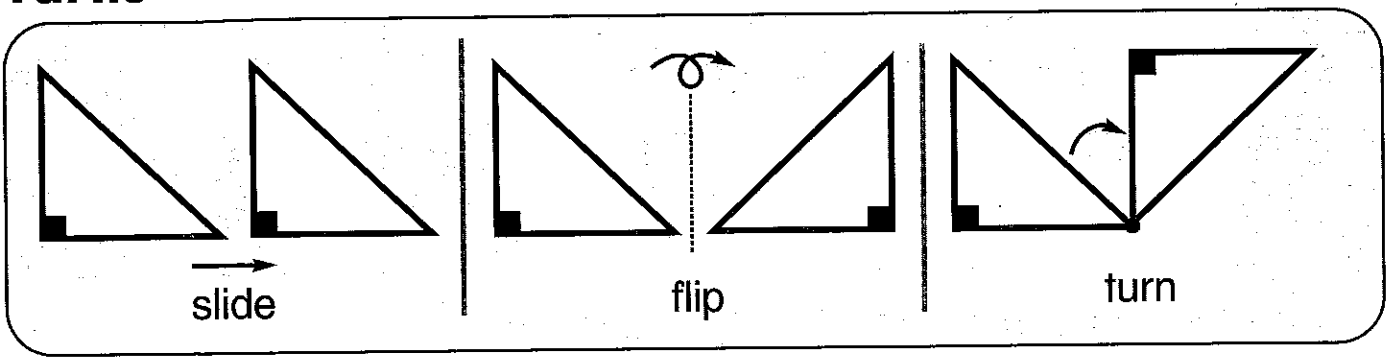
9.



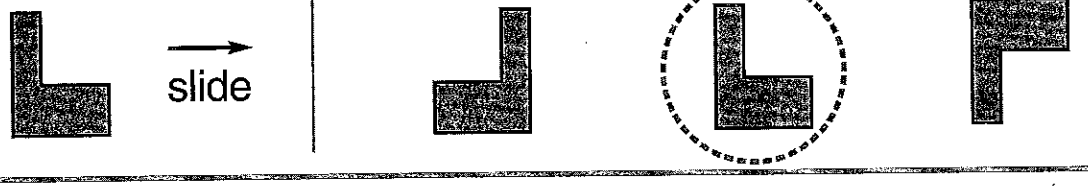
Use after Lessons 6 and 7, text pages 259–262.

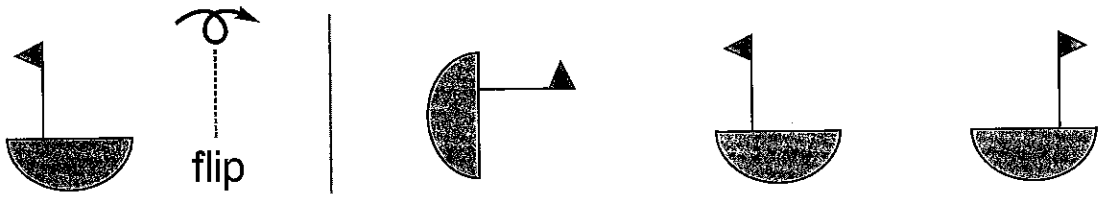
Slides and Flips; Turns

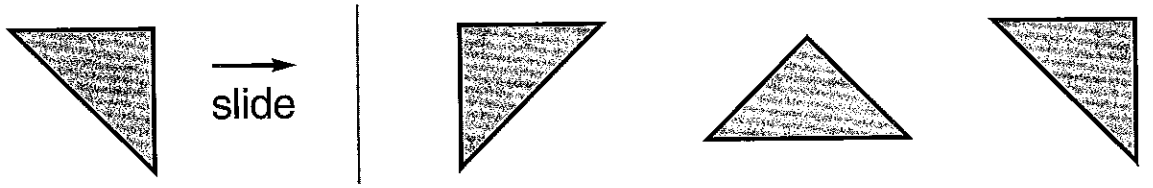
Name _____

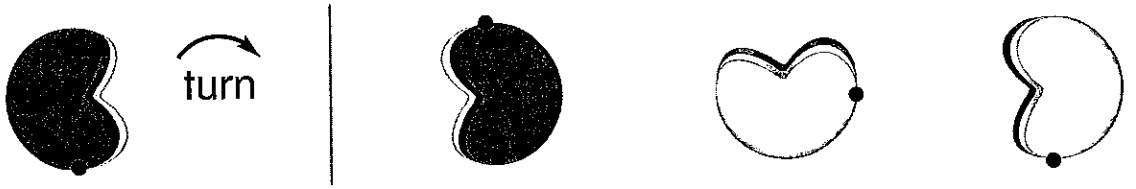


Circle to predict the position of the figure after it is moved.

1. 

2. 

3. 

4. 

Circle the next figure in the slide, flip, or turn pattern.

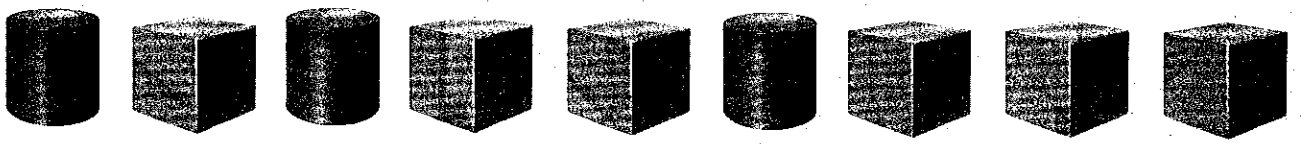
5. 

6. 

Find a Pattern

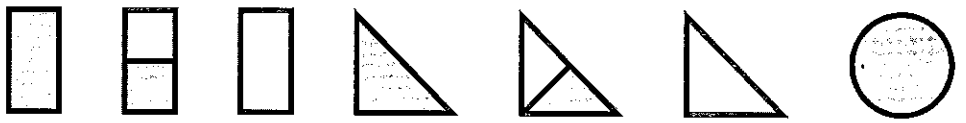
Name _____

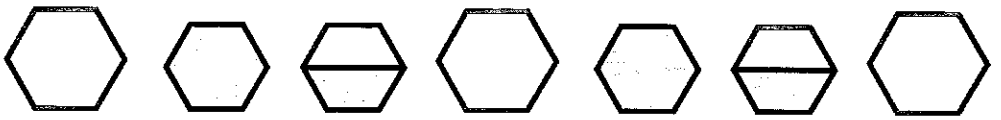
You can use shapes to make patterns.

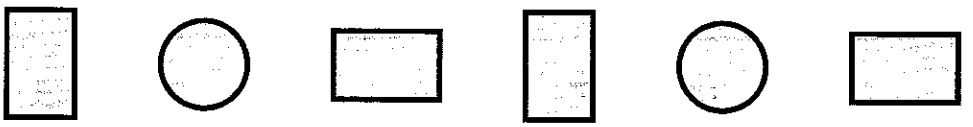


Draw the figure that is most likely to come next.

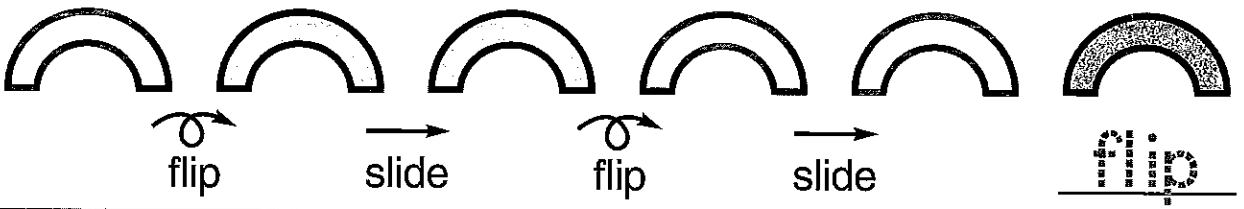
1. 

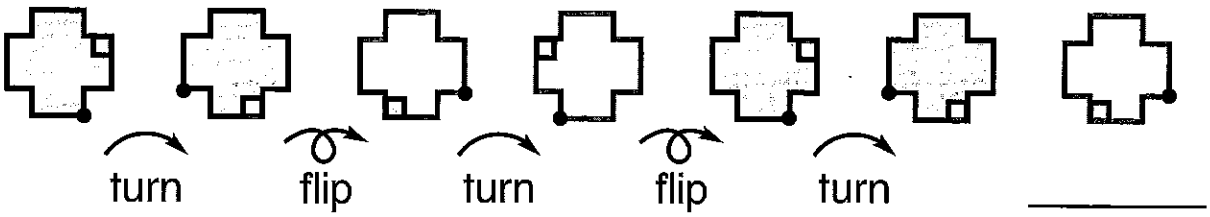
2. 

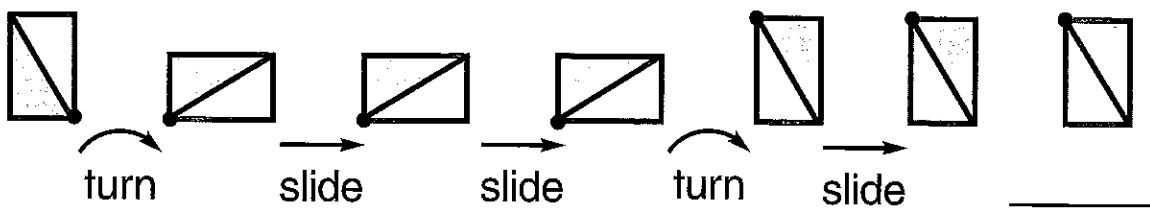
3. 

4. 

Name and color the next move in each pattern.

5. 

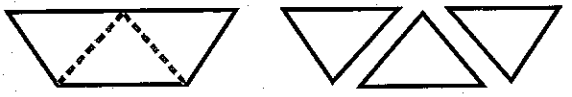
6. 

7. 

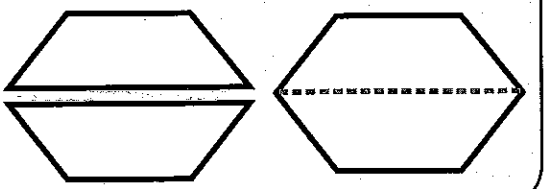
Ways to Make Figures

Name _____

You can separate a trapezoid into 3 triangles.

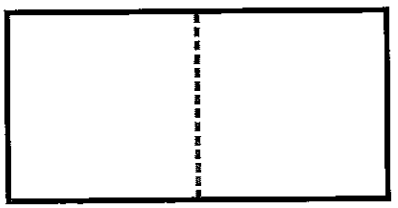


You can put together 2 trapezoids to make 1 hexagon.

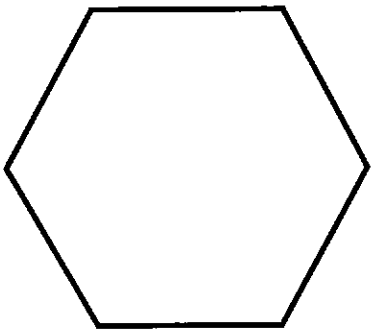


Use pattern blocks to cover each figure.
Trace the blocks to separate the figure into □, △, or ▱.

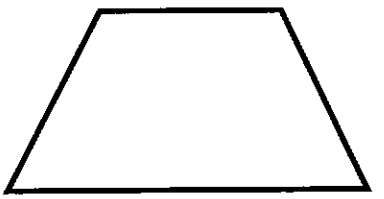
1. Use □.



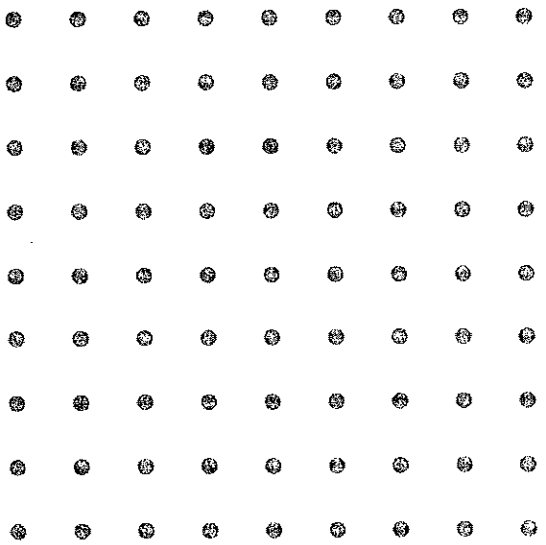
2. Use △ and ▱.



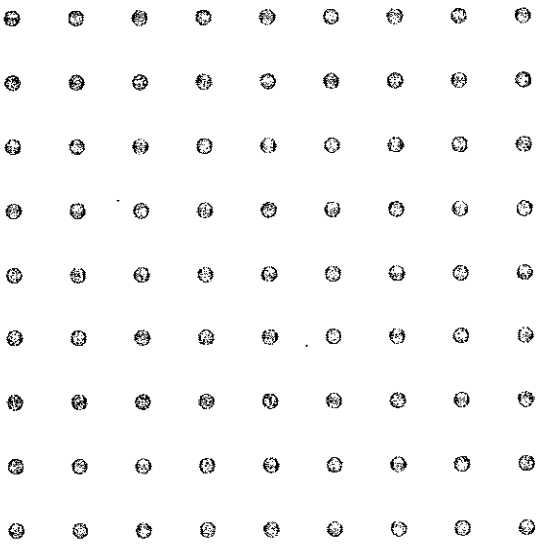
3. Use △.



4. Draw a triangle and a square to make a pentagon.



5. Draw 6 triangles to make a hexagon.



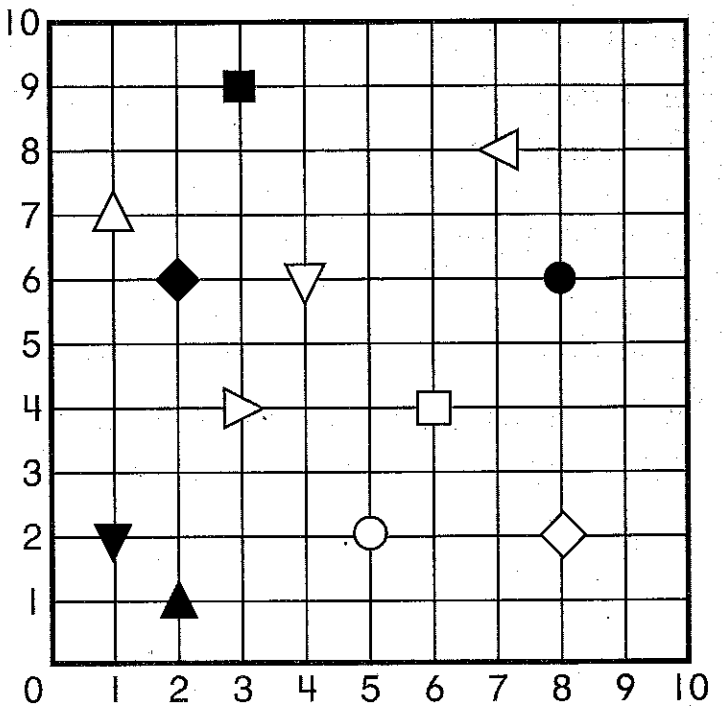
Ordered Pairs

Name _____

Look at the grid.
What figure is at point (5, 2)?

To find out,
1. Start at 0.
2. Move across.
3. Move up.

The ○ is at point (5, 2).



Use the grid above. Write the ordered pair for each figure.

1. ◇ (2, 2)

2. ▲ (____, ____)

3. ◁ (____, ____)

4. ▷ (____, ____)

5. □ (____, ____)

6. ▼ (____, ____)

Draw the figure at each point.

7. (2, 1) ▲

8. (1, 2)

9. (8, 6)

10. (4, 6)

11. (3, 9)

12. (1, 7)

13. (3, 4)

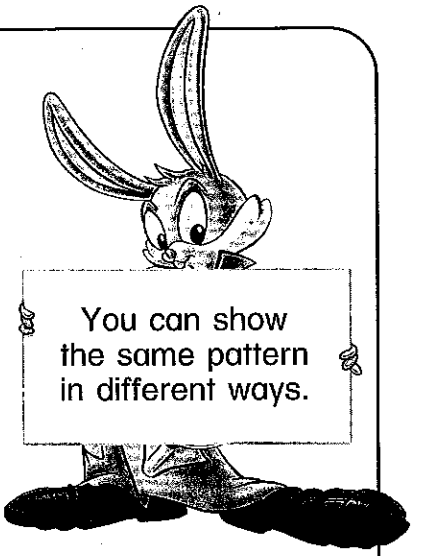
14. (2, 6)

15. (7, 8)

Use with Lesson 13, text pages 275–276.

Problem-Solving Strategy: Use a Pattern

Name _____



Read How can you show this pattern using letters or colors?

△ ○ □ △ ○ □ △ ○ □

Plan Look for the pattern rule.
Use the same rule to make a new pattern with letters, then with colors.
The rule is 1 figure, then 1 of a different figure, then 1 of a third figure.

Write

△ ○ □ △ ○ □ △ ○ □

A	B	C	A	B	C	A	B	C

Check Do the letters and colors follow the same pattern rule?

Show each pattern another way.

1.

○ ▱ ▱ ○ ▱ ▱ ○ ▱ ▱ ○ ▱ ▱

Use colors.												

2.

■ ■ ■ ■ ■ ■ ■ ■ ■

Use letters.									

3. C D C C D D C C C D D D

Use figures.												

Problem-Solving Applications: Mixed Strategies

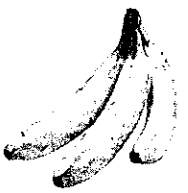
Name _____

Read → Plan → Write → Check

Strategy File
- Use Logical Reasoning
- Choose the Operation
- Use More Than One Step
- Use a Pattern

Use a strategy you have learned.

1. There are 31 bananas in a barrel.
Mara uses 6 bananas for lunch.
She puts a dozen more bananas into the barrel.
How many bananas are in the barrel then?



_____ bananas are in the barrel then.

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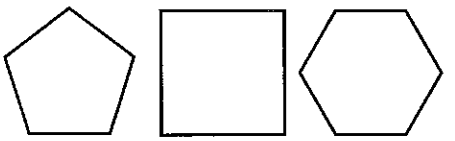
2. Sal's puzzle piece has more than 5 sides.
Del's has 2 less corners than Sal's.
Color Sal's puzzle piece blue, Del's piece yellow, and Trudy's piece red.



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3. Todd writes an even number.
It has more ones than tens.
Circle Todd's number.

67 44 12 86

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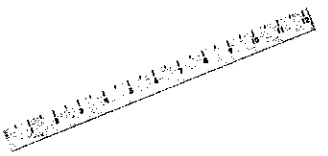
4. Gil finds 19 rulers in the supply closet.
He gives 6 rulers to his classmates.
How many rulers are in the supply closet then?



There are _____ rulers in the closet.

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5. Show the same pattern with letters or colors.