



A STORY OF UNITS



Mathematics Curriculum



Grade K • MODULE 6

Analyzing, Comparing, and Composing Shapes

PROBLEM SETS

Info for parents: <http://bit.ly/pastmath>

Video tutorials: <http://embarc.online>

Version 3



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GRADE K • MODULE 6

Analyzing, Comparing, and Composing Shapes

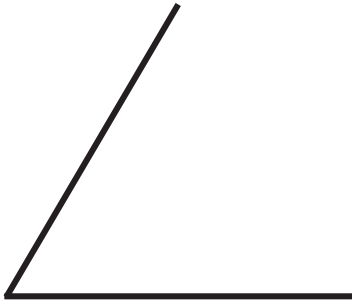
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Name _____

Date _____

Listen to the directions.

First, draw the missing line to finish the triangle using a ruler. **Second**, color the corners red. **Third**, draw another triangle.



First, use your ruler to draw 2 lines to make a square. **Second**, color the corners red. **Third**, draw another square.



First, draw a triangle using your ruler. **Second**, draw a different triangle using your ruler. **Third**, show your pictures to your partner.

$$4 + 1 = \underline{\quad}$$

$$\underline{\quad} = 2 + 1$$

$$3 + 2 = \underline{\quad}$$

$$3 + 1 = \underline{\quad}$$

$$\underline{\quad} = 5 + 0$$

$$5 - 1 = \underline{\quad}$$

$$\underline{\quad} = 4 - 1$$

$$3 - 2 = \underline{\quad}$$

$$3 - 0 = \underline{\quad}$$

$$\underline{\quad} = 5 - 4$$

$$2 - 1 = \underline{\quad}$$

$$\underline{\quad} = 3 - 3$$

$$1 - 0 = \underline{\quad}$$

$$3 - 0 = \underline{\quad}$$

$$\underline{\quad} = 4 - 4$$

$$2 + 2 = \underline{\quad}$$

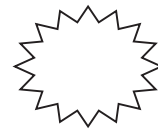
$$\underline{\quad} = 5 - 3$$

$$1 + 1 = \underline{\quad}$$

$$4 - 0 = \underline{\quad}$$

$$\underline{\quad} = 4 + 1$$

Number Correct:



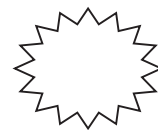
Name _____

Date _____

Write the missing number.

1.	$2 + 1 = \square$	11.	$\square = 3 + 2$
2.	$1 + 1 = \square$	12.	$1 + 3 = \square$
3.	$1 + 4 = \square$	13.	$\square = 2 + 2$
4.	$3 + 1 = \square$	14.	$\square = 1 + 2$
5.	$2 + 2 = \square$	15.	$1 + 4 = \square$
6.	$2 + 3 = \square$	16.	$\square = 2 + 3$
7.	$1 + 2 = \square$	17.	$\square = 5 + 1$
8.	$4 + 1 = \square$	18.	$5 + 2 = \square$
9.	$3 + 2 = \square$	19.	$1 + 0 = \square$
10.	$1 + 3 = \square$	20.	$5 + 0 = \square$

Number Correct:



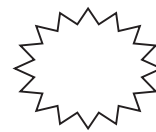
Name _____

Date _____

Write the missing number.

1.	$2 - 1 = \square$	11.	$\square = 4 - 2$
2.	$4 - 1 = \square$	12.	$5 - 3 = \square$
3.	$5 - 1 = \square$	13.	$\square = 3 - 1$
4.	$3 - 1 = \square$	14.	$\square = 5 - 2$
5.	$3 - 2 = \square$	15.	$4 - 1 = \square$
6.	$4 - 2 = \square$	16.	$\square = 5 - 4$
7.	$5 - 3 = \square$	17.	$\square = 5 - 1$
8.	$5 - 2 = \square$	18.	$6 - 1 = \square$
9.	$4 - 3 = \square$	19.	$1 - 0 = \square$
10.	$5 - 4 = \square$	20.	$5 - 5 = \square$

Number Correct:



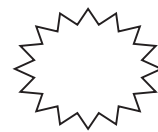
Name _____

Date _____

Write the missing number.

1.	$2 + 1 = \square$	11.	$3 + 2 = \square$
2.	$2 - 1 = \square$	12.	$3 - 2 = \square$
3.	$3 + 1 = \square$	13.	$4 + 0 = \square$
4.	$3 - 1 = \square$	14.	$4 - 0 = \square$
5.	$4 + 1 = \square$	15.	$5 + 0 = \square$
6.	$4 - 1 = \square$	16.	$5 - 0 = \square$
7.	$1 + 1 = \square$	17.	$5 - 5 = \square$
8.	$1 - 1 = \square$	18.	$4 + 1 = \square$
9.	$2 + 2 = \square$	19.	$5 - 4 = \square$
10.	$2 - 2 = \square$	20.	$5 - 1 = \square$

Number Correct:



Name _____

Date _____

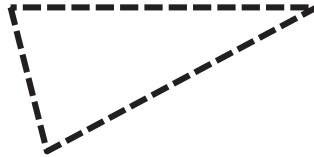
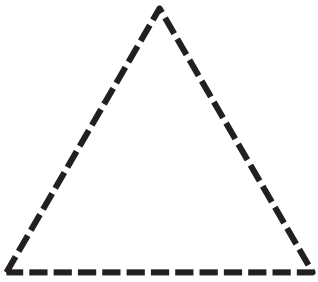
Write the missing number.

1.	$2 + 1 = \square$	11.	$\square = 1 + 2$
2.	$4 + 1 = \square$	12.	$5 + 0 = \square$
3.	$5 - 1 = \square$	13.	$\square = 3 - 1$
4.	$3 + 1 = \square$	14.	$\square = 2 + 2$
5.	$3 + 2 = \square$	15.	$4 - 1 = \square$
6.	$4 - 2 = \square$	16.	$\square = 5 - 4$
7.	$5 - 3 = \square$	17.	$\square = 5 - 1$
8.	$5 - 2 = \square$	18.	$3 + 0 = \square$
9.	$2 + 3 = \square$	19.	$1 - 0 = \square$
10.	$5 - 4 = \square$	20.	$5 - 5 = \square$

Name _____

Date _____

First, use a ruler to trace the shapes. Second, follow the directions in each box. Use your ruler to draw the shapes.



Draw 3 different triangles.

Draw 2 different rectangles.

Draw 1 hexagon.

$$5 - 4 = \underline{\quad}$$

$$5 - 3 = \underline{\quad}$$

$$5 - 2 = \underline{\quad}$$

$$5 - 1 = \underline{\quad}$$

$$5 - 0 = \underline{\quad}$$

$$0 + 1 = \underline{\quad}$$

$$1 + 1 = \underline{\quad}$$

$$2 + 1 = \underline{\quad}$$

$$3 + 1 = \underline{\quad}$$

$$4 + 1 = \underline{\quad}$$

$$4 - 2 = \underline{\quad}$$

$$2 - 1 = \underline{\quad}$$

$$3 - 2 = \underline{\quad}$$

$$3 - 1 = \underline{\quad}$$

$$5 - 0 = \underline{\quad}$$

$$4 - 3 = \underline{\quad}$$

$$2 + 1 = \underline{\quad}$$

$$3 + 2 = \underline{\quad}$$

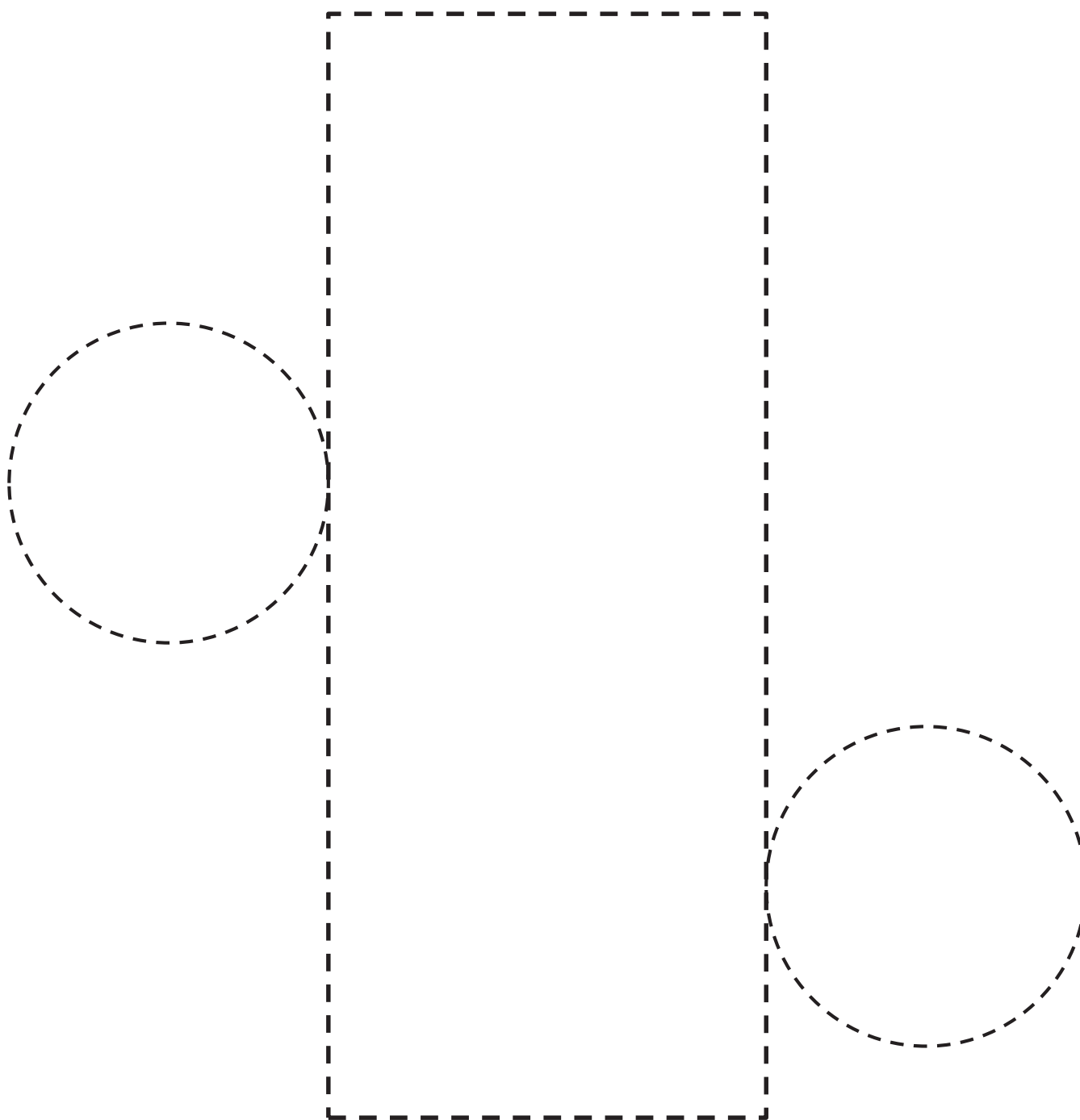
$$4 - 1 = \underline{\quad}$$

$$5 - 4 = \underline{\quad}$$

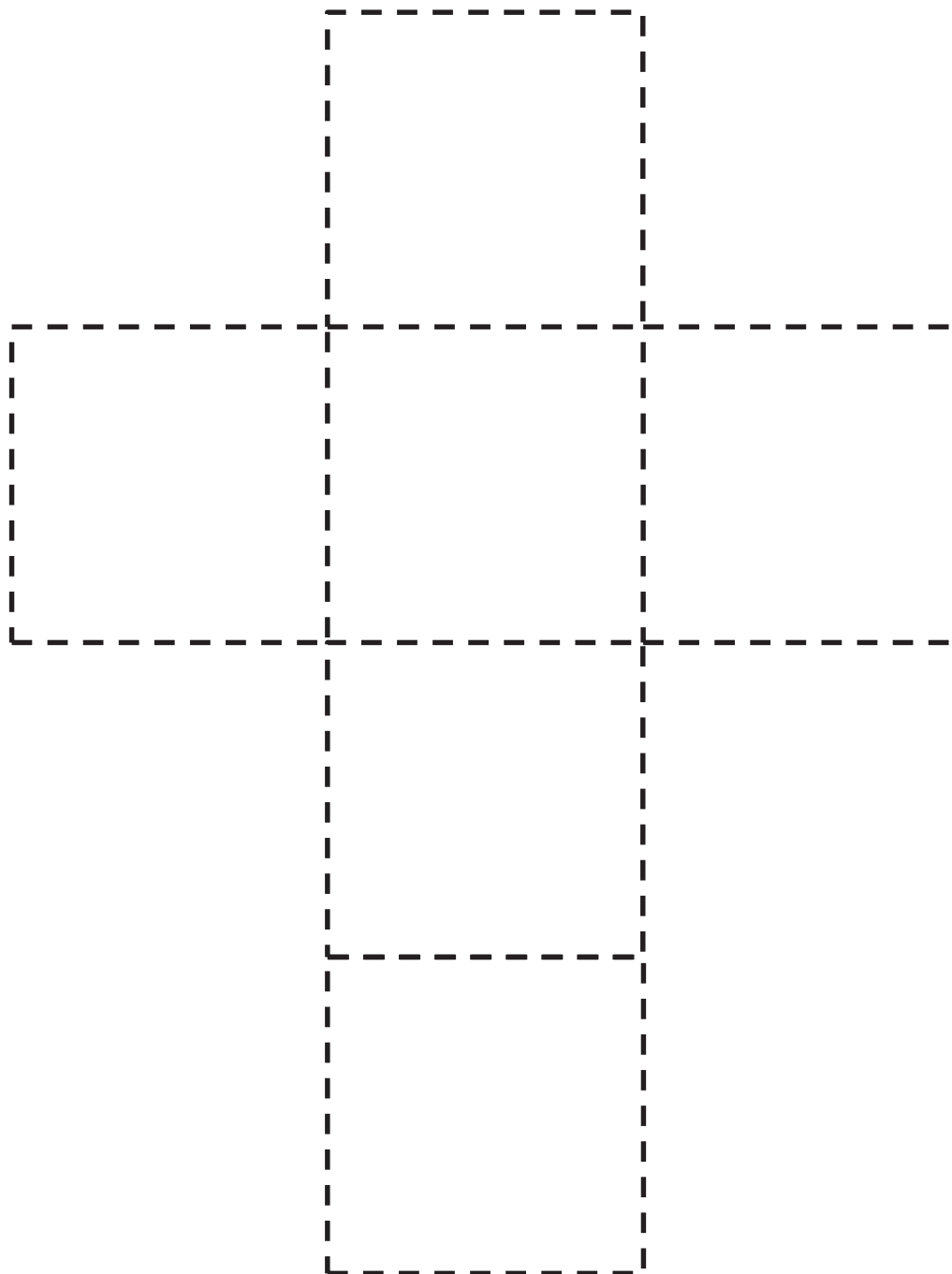
Name _____

Date _____

Trace the circles and rectangle. Cut out the shape. Fold and tape to create a cylinder.



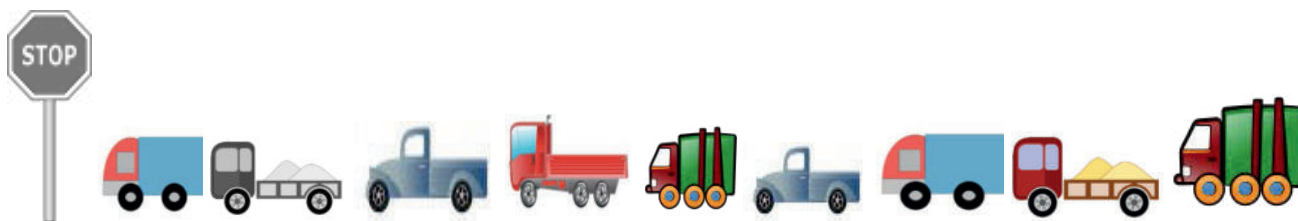
Trace the squares. Cut out the shape. Fold and tape to create a cube.



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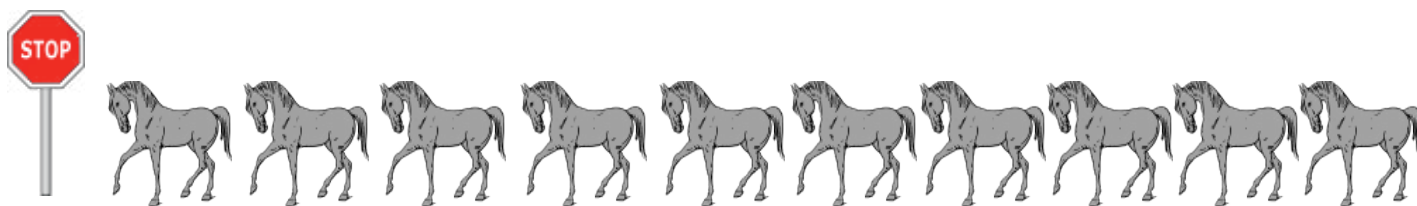
Circle the 2nd truck from the stop sign. Draw a square around the 5th truck. Draw an X on the 9th truck.



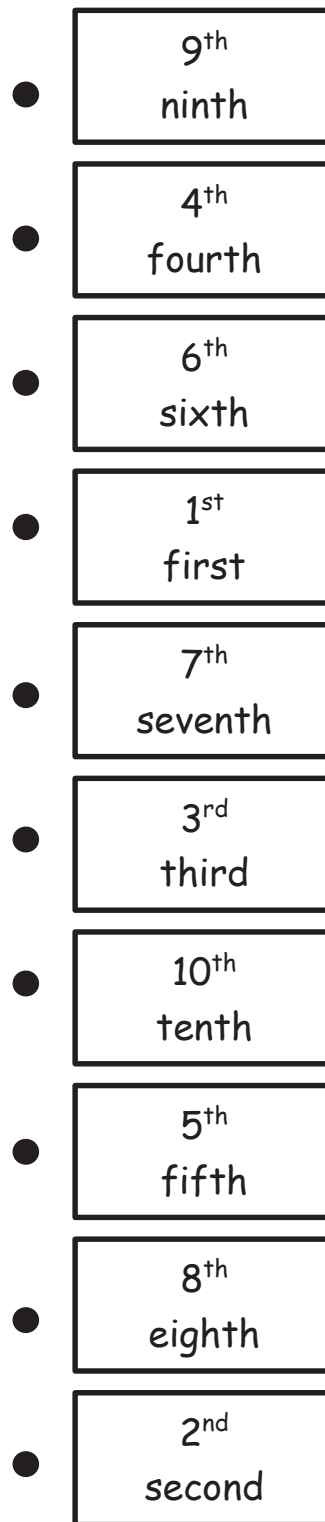
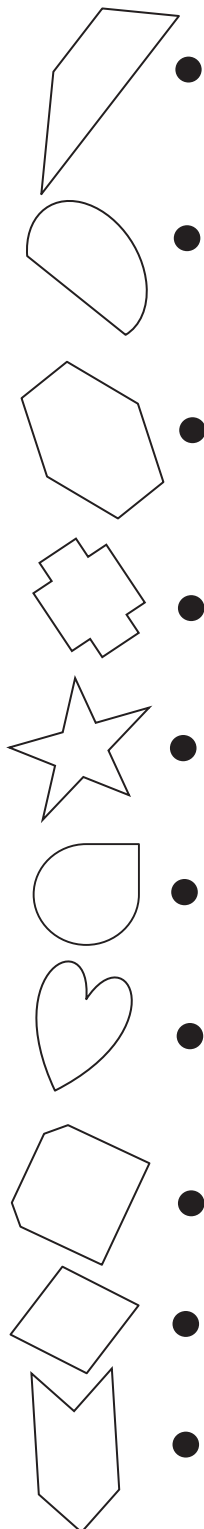
Draw a triangle around the 4th vehicle from the stop sign. Draw a circle around the 1st vehicle. Draw a square around the 6th vehicle.



Put an X on the 10th horse from the stop sign. Draw a triangle around the 7th horse. Draw a circle around the 3rd horse. Draw a square around the 8th horse.



Draw a line from the shape to the correct ordinal number, starting at the top.



Name _____ Date _____

Choose 4 shapes to create a new shape in Box 1. Give the same 4 shapes to your partner. Have your partner create a different shape in Box 2.

1

2

Choose 5 shapes to create a new shape in Box 3. Give the same 5 shapes to your partner. Have your partner create a different shape in Box 4.

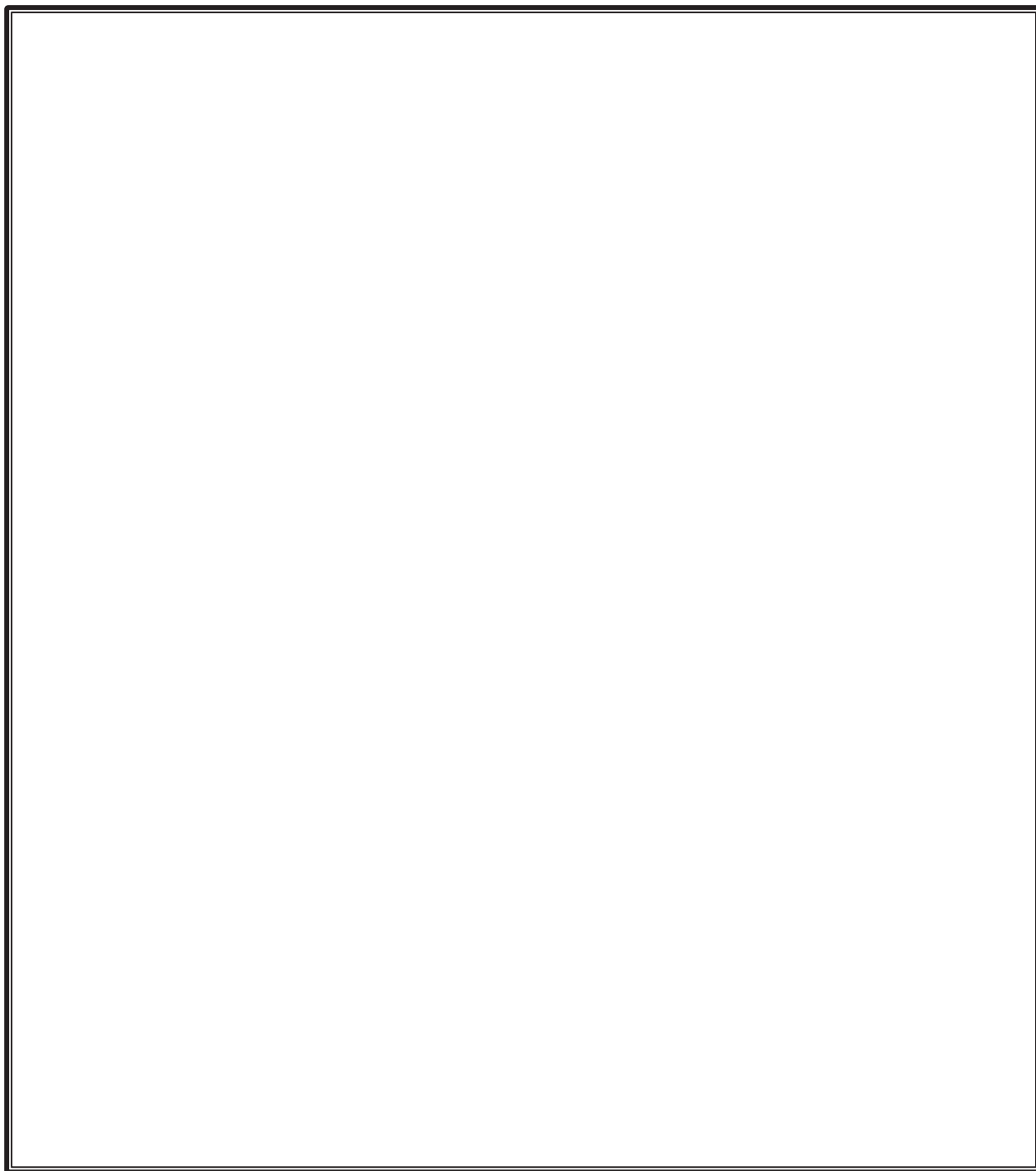
3

4

Subtract.

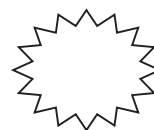
$$5 - 1 = \square \quad 5 - 2 = \square \quad 5 - 3 = \square \quad 5 - 4 = \square$$

I Can Make New Shapes!



I can make new shapes recording sheet

Number Correct:



Name _____

Date _____

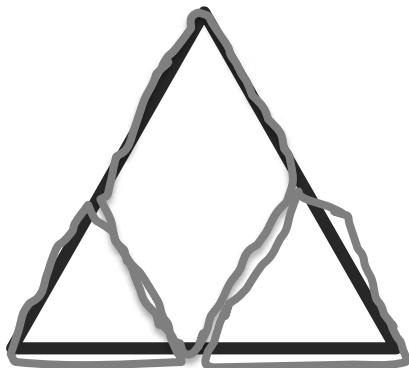
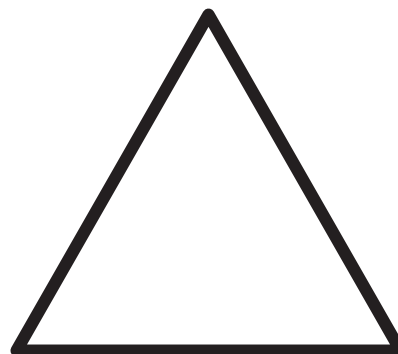
Write the number of dots needed to make 10 dots.

1.		9.	
2.		10.	
3.		11.	
4.		12.	
5.		13.	
6.		14.	
7.		15.	
8.		16.	

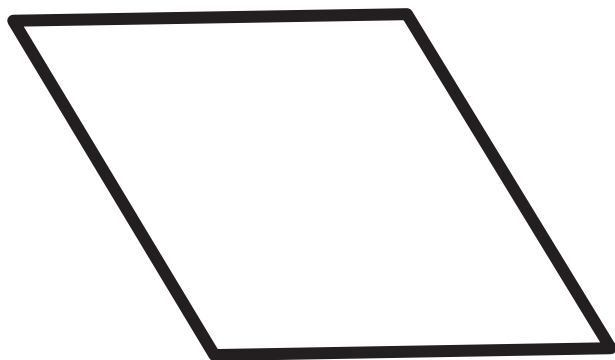
Name _____

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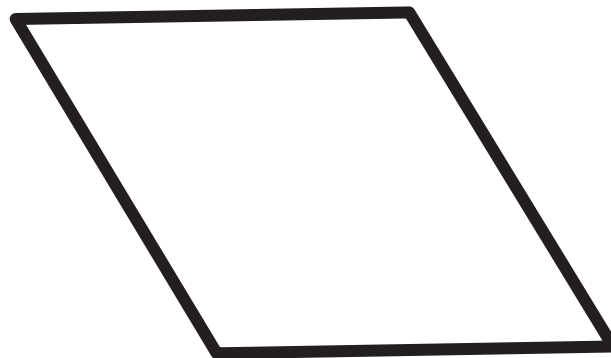
Trace to show 2 ways to make each shape. How many shapes did you use?

I used 3 shapes.

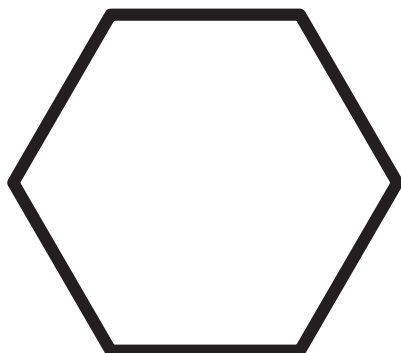
I used _____ shapes.



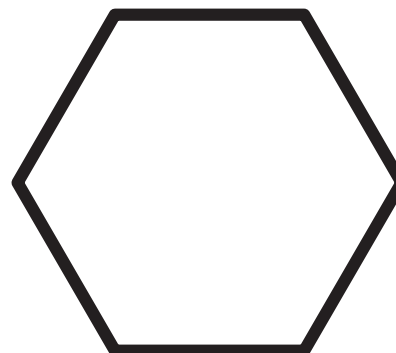
I used _____ shapes.



I used _____ shapes.

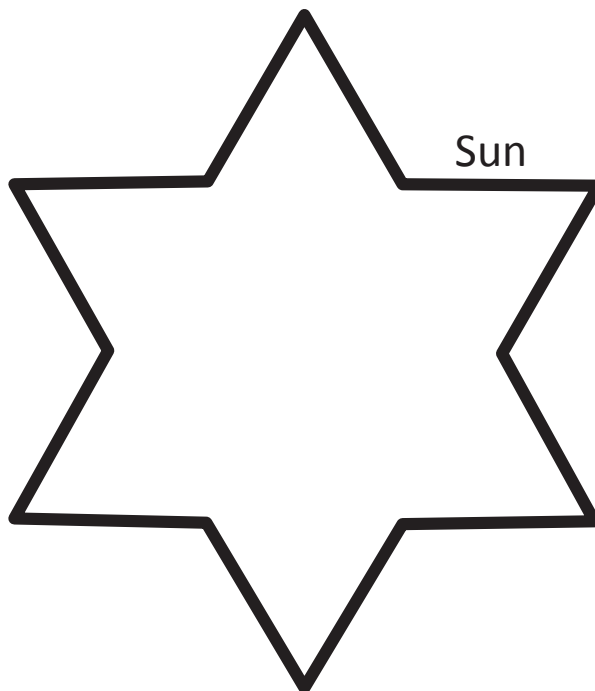
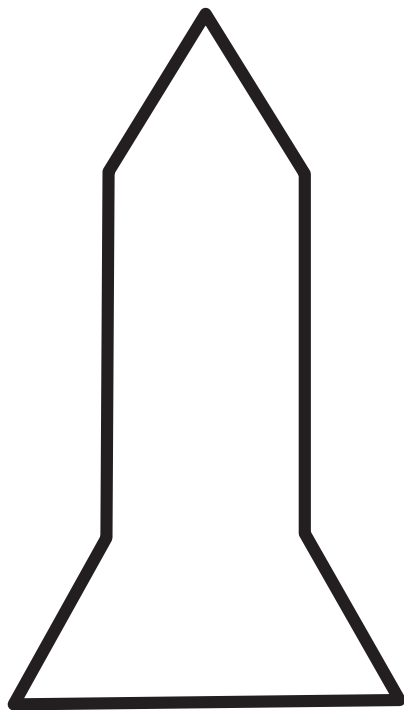
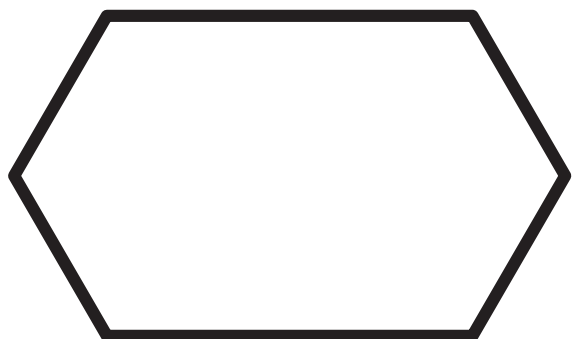


I used _____ shapes.



I used _____ shapes.

Fill in each shape with pattern blocks. Trace to show the shapes you used.



How many different ways can you cover the sun picture with pattern blocks?

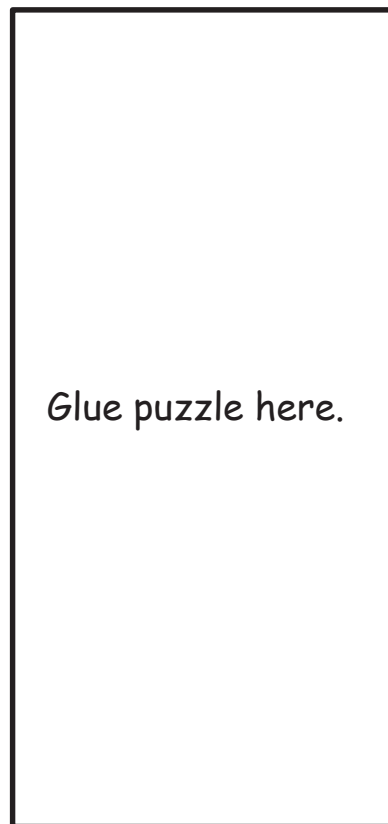
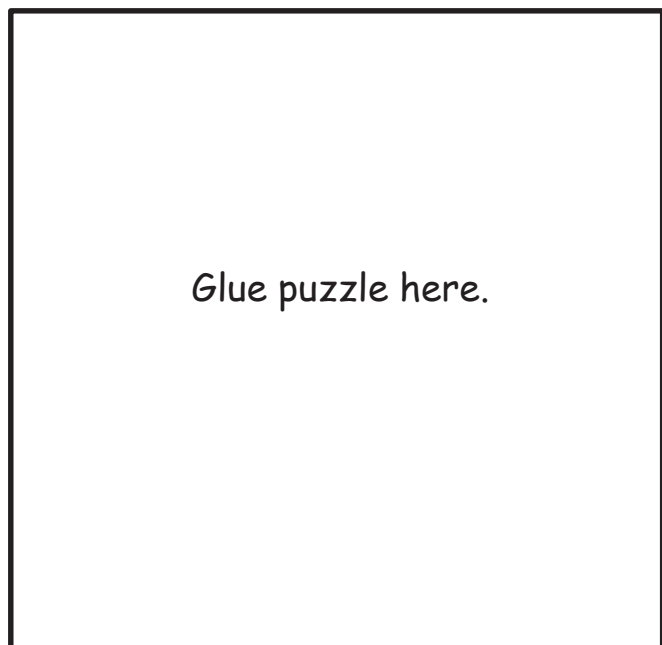
Answer: 3 ways

(2 triangles), (6 triangles/1 hexagon), (1 large triangle/3 small triangles)

Name _____

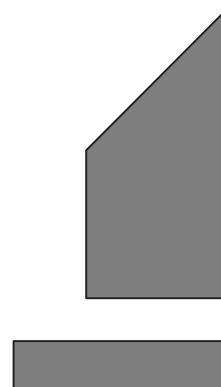
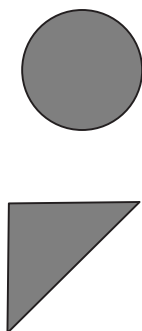
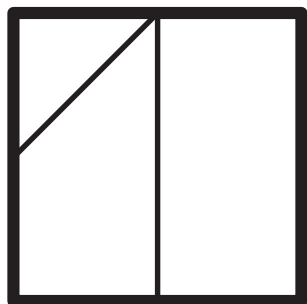
Date _____

Glue your puzzles into the frames.

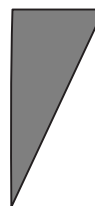
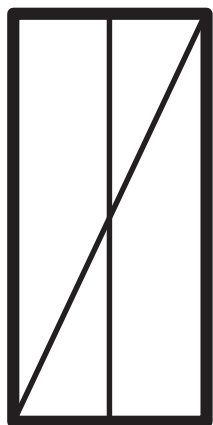


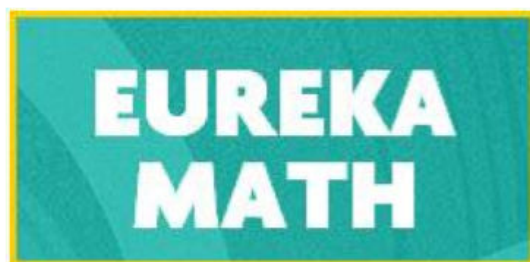
Draw some of the shapes that you had after you cut your rectangles.

Carlos drew 2 lines on his square. You can see his square before he cut it. Circle the shapes Carlos had after he cut.



India drew 2 lines on her rectangle. You can see her rectangle before she cut it. Circle the shapes India had after she cut.





Video tutorials: <http://embarc.online>



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