

# MATH PACKET



*for*

**Students Entering First Grade**

Students Name: \_\_\_\_\_  
*First and Last*

Student's Kindergarten Teacher: \_\_\_\_\_

Parent's Signature: \_\_\_\_\_

## INTRODUCTION

Welcome to the summer math packet for students completing kindergarten. Activities are designed to support instruction in the new curriculum in both its content and presentation. Therefore the activities are not to be done as independent problems, but to be worked on with a parent, guardian or older brother or sister. Talking about the problem is an important part of completing each activity.

### Summer Packet Content:

#### Standard 1: Counting and Cardinality

- Summer to the Left and Right
- Greater Than, Less Than, Equal To

#### Standard 2: Operations and Algebraic Thinking

- Fish Sticks
- Sandy Solutions

#### Standard 3: Measurement and Data

- Sean and Shianne's Shapes
- Measurement Madness

#### Standard 4: Geometry

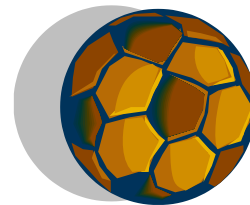
- Miniature Golf Geometry
- Shape Up

#### Standard 5: Number Operations in Base Ten

- Batter Up with Base Ten
- Ten Frame Beach Towel

Also, please remember that memorization of basic facts is important for continued success in math. Please have your child use the attached basic facts papers on a daily basis.





## Summer to the Left and Right

**Directions:**

Use the attached game board, “Summer to the Left and Right”. Cut the cards and place them face-down in a pile. Take turns drawing a card and placing it in the correct spot on the game board. After each player places a number down, they need to justify why the number belongs in that space. Keep going until all cards have been placed on the game board.

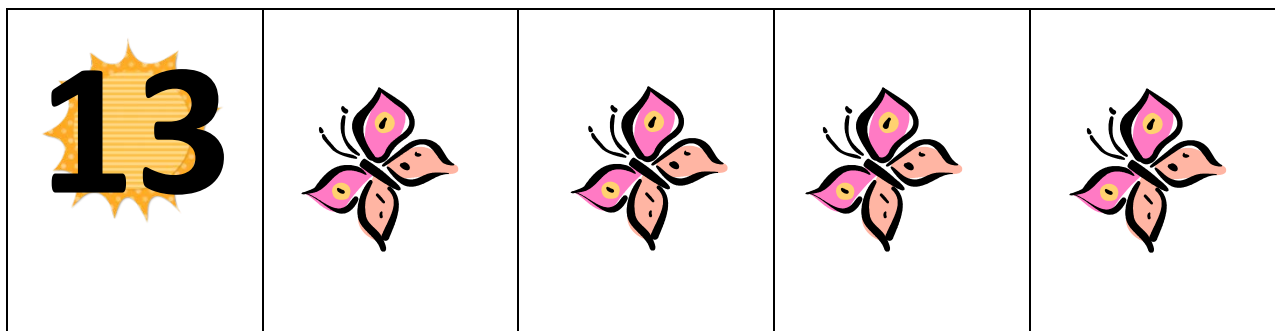
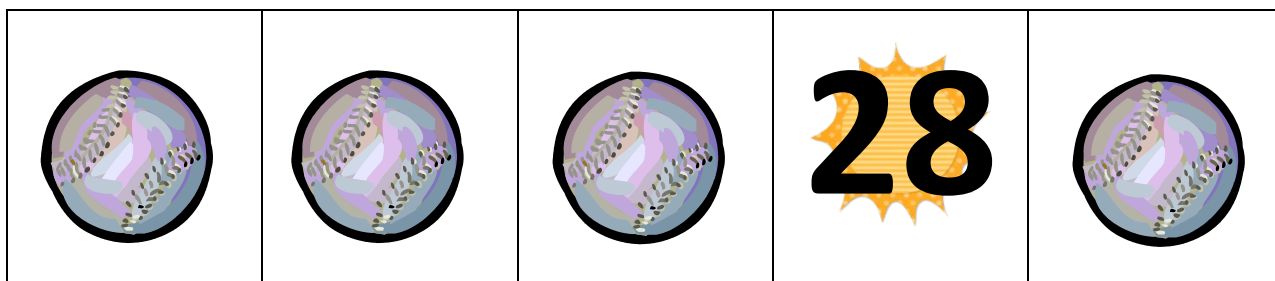
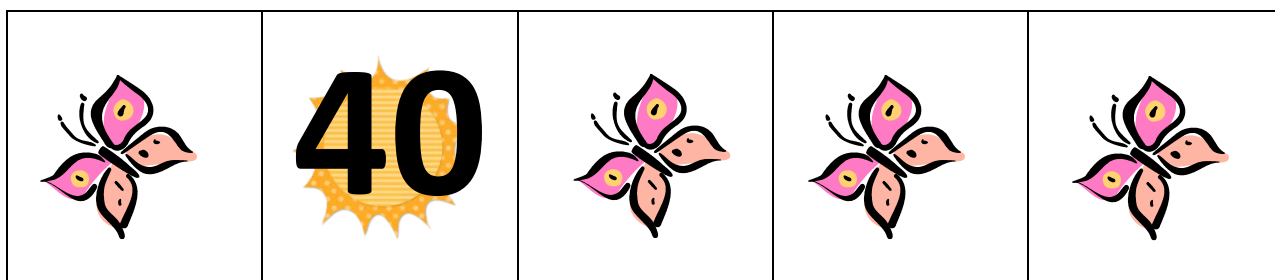
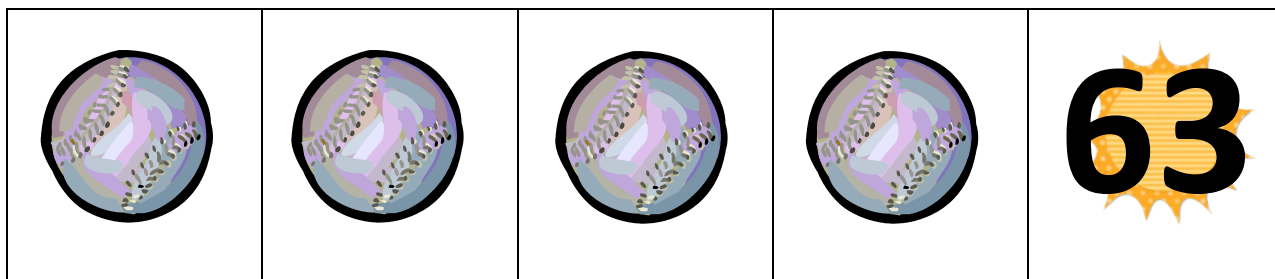
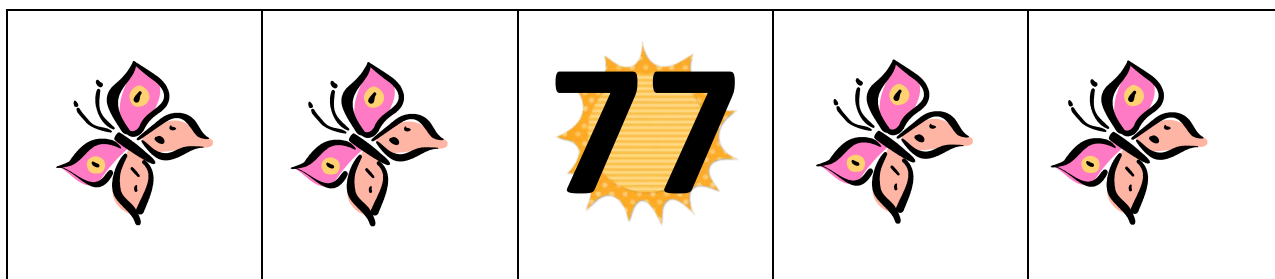
Listen to what your child says about the placement of the numbers. Do they discuss the ones and tens place? Do they use the anchor number on the game board to justify their placement?

Cut out cards.

61	14	75	41	16
78	43	25	60	29
79	26	39	15	59
62	17	27	76	42

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# Game board: Summer to the Left and Right



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## Review of Kindergarten: Counting and Cardinality Task B

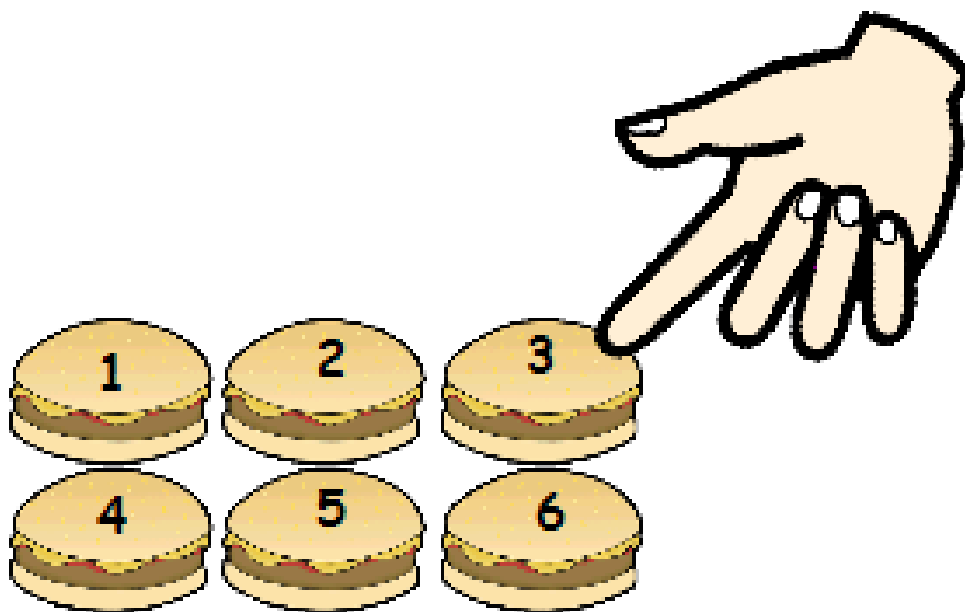
# Greater Than, Less Than, Equal To

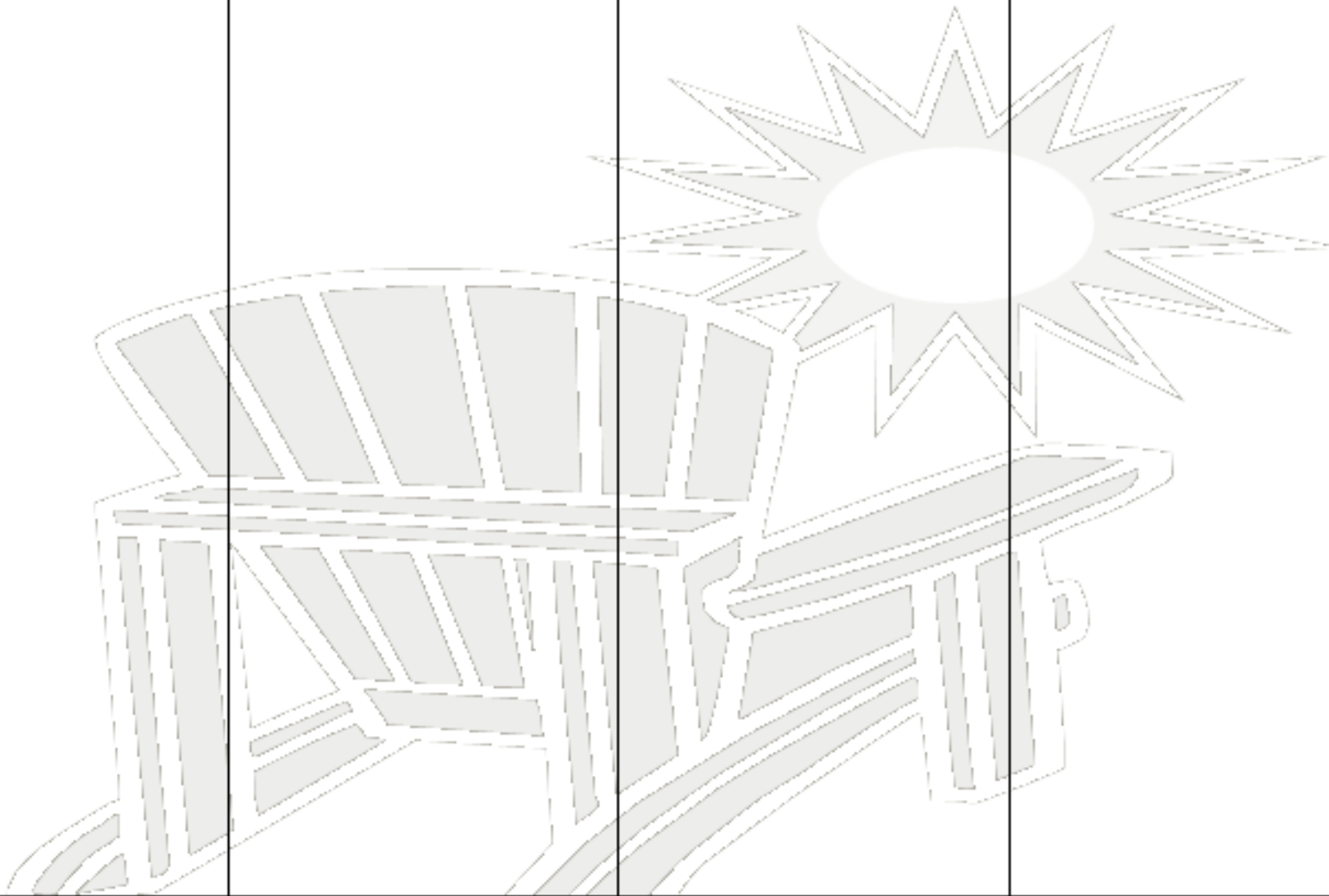
Your child will practice identifying whether the number of objects in one group is greater than, less than, or equal to the number of objects in another group by using matching and counting strategies.

### Directions:

Spin the spinner. Place that number of small objects in the first column. You can use counters, small pebbles, beads, etc. Have your child make a set of counters equal to, less than, and greater than the amount you made in the first column.

Watch how your child recognizes the amount they counted. Does he use the strategy of one to one correspondence? Does she count by ones, twos? Does he see the amount automatically without counting?

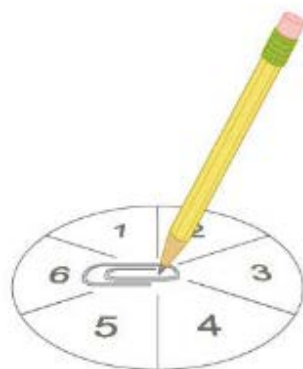
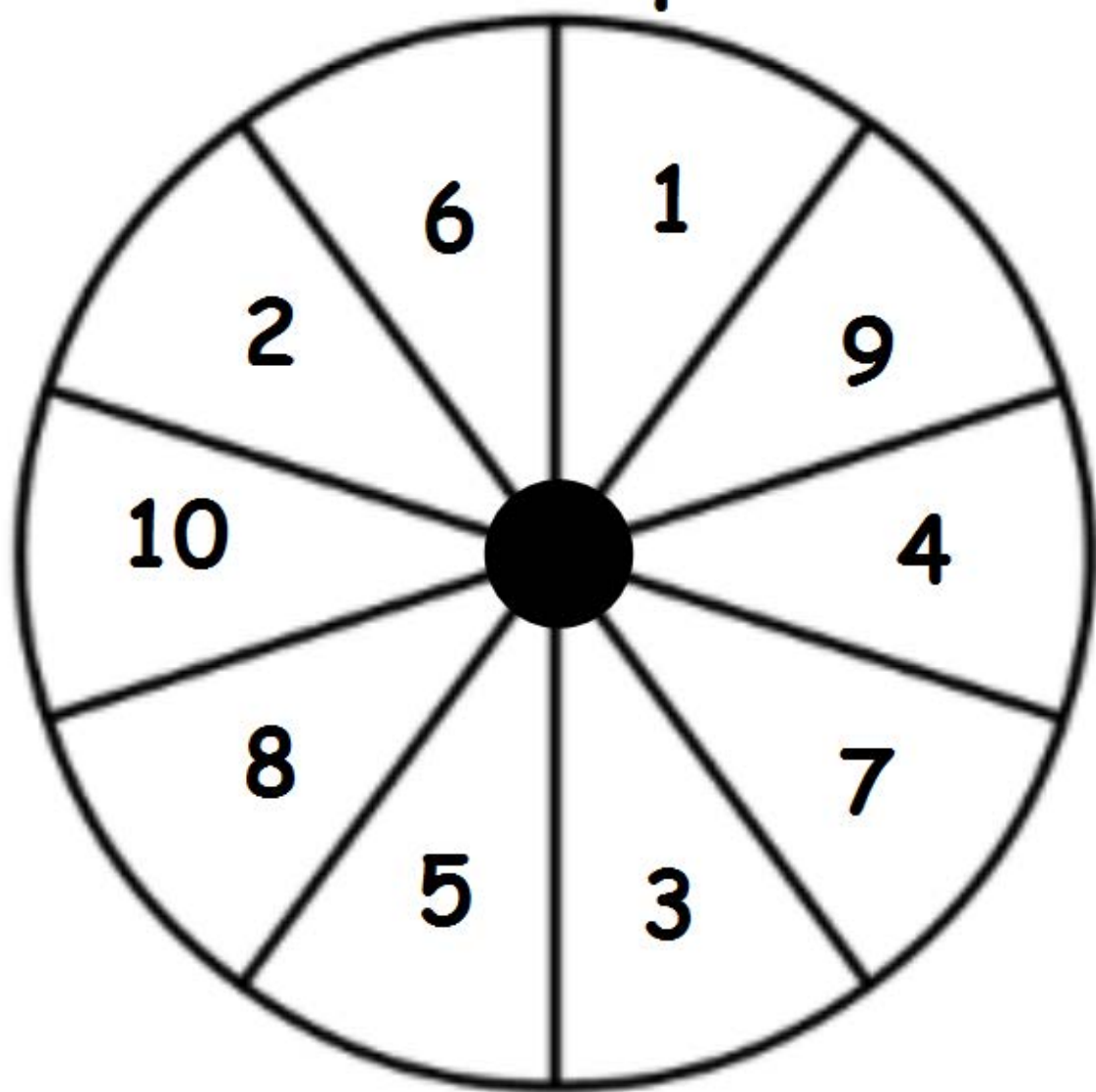




<b>Number Spun</b>	<b>Equal To</b>	<b>Less Than</b>	<b>Greater Than</b>

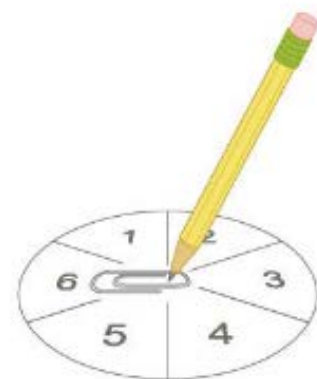
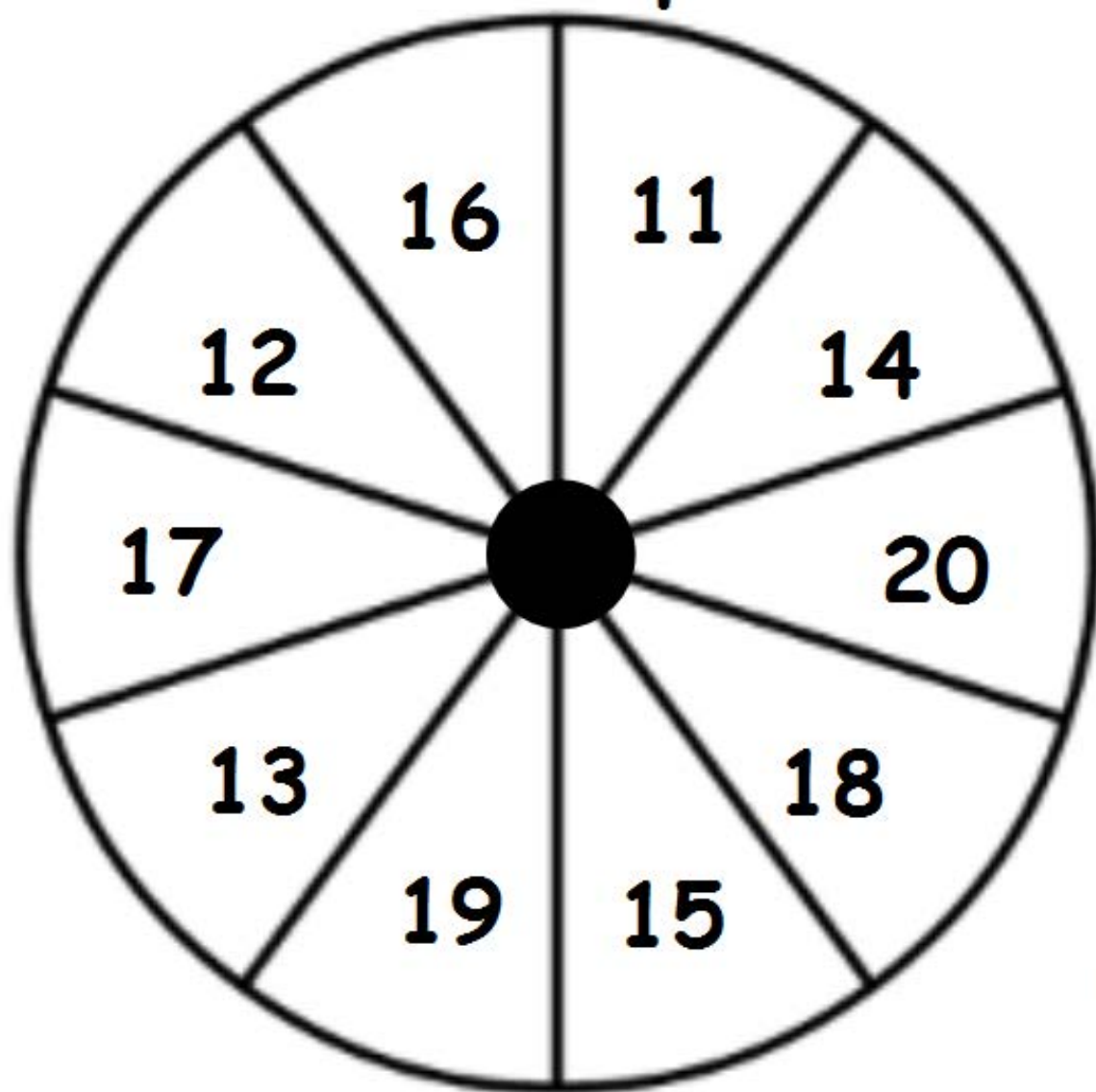


# Beach Ball Spinner 1-10



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# Beach Ball Spinner 11-20



challenge

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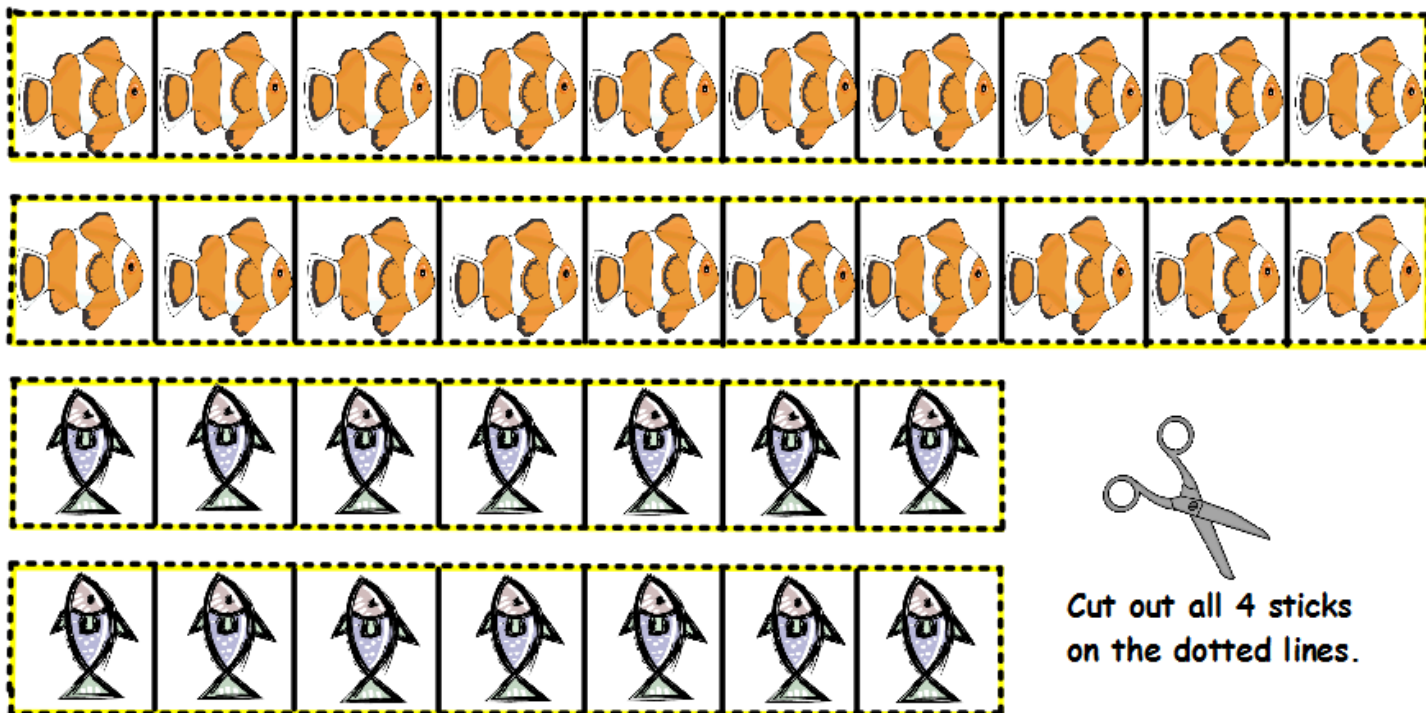
# Fish Sticks

**Directions:**

1. Cut out all four sticks below along the dotted lines.
2. Count the total number of squares for the first fish stick.
3. An adult takes the stick back, hides it, cuts it into two parts and returns one of the parts to the child.
4. The adult asks, "How many squares do I have hidden?"
5. The child will need to figure out how many more squares are needed to make the total (how many squares the adult still has).

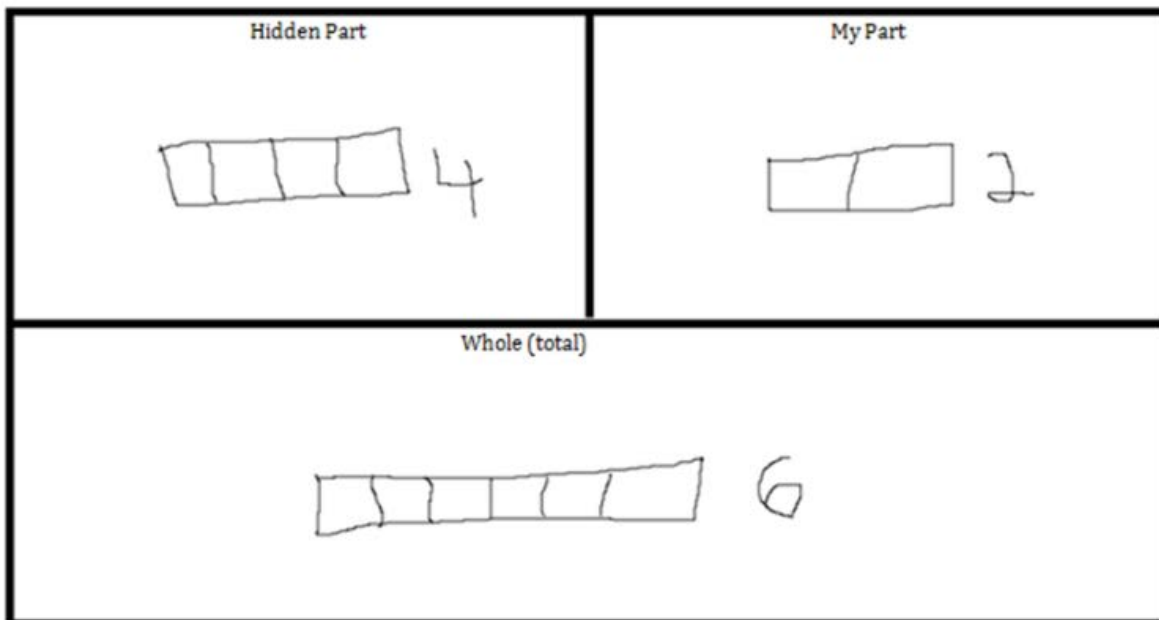
Play the game four times. Make 10 two different ways. Make 7 two different ways. The child may use the attached work mat to assist. Write a number sentence to go with each round of the game.

A sample has been done for you.

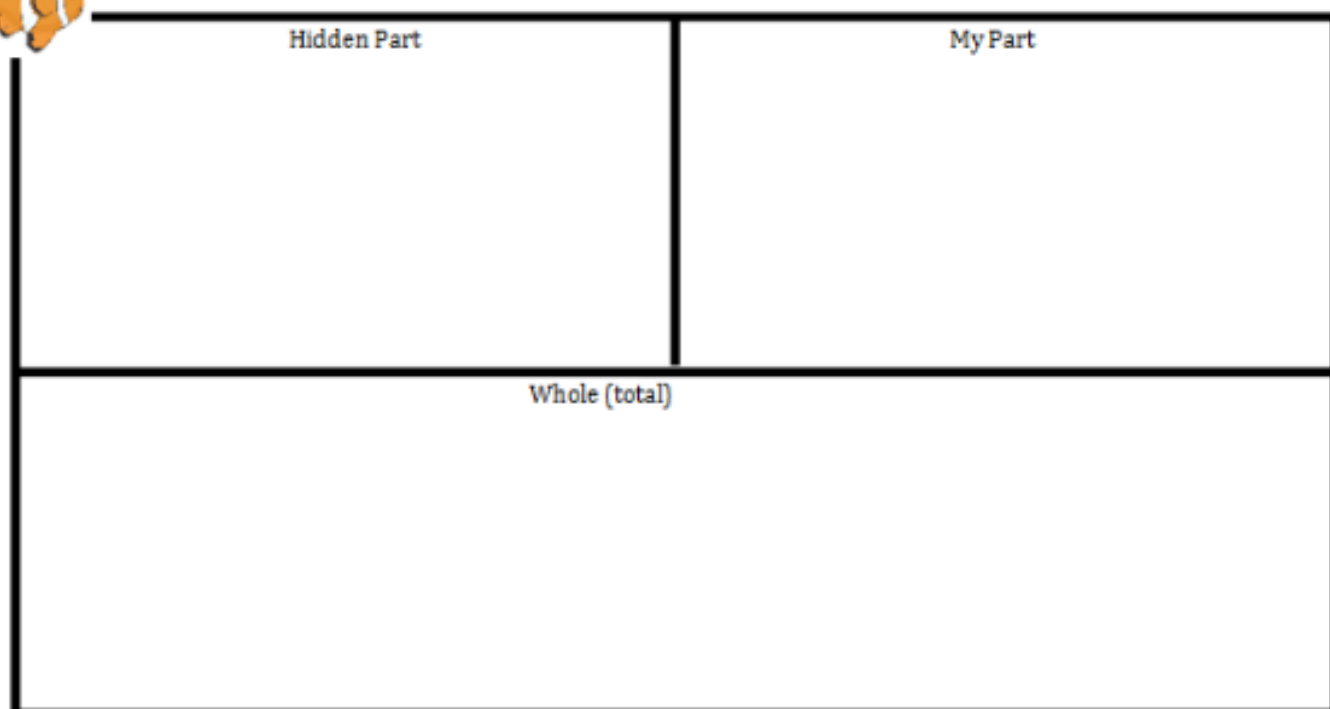


Cut out all 4 sticks on the dotted lines.

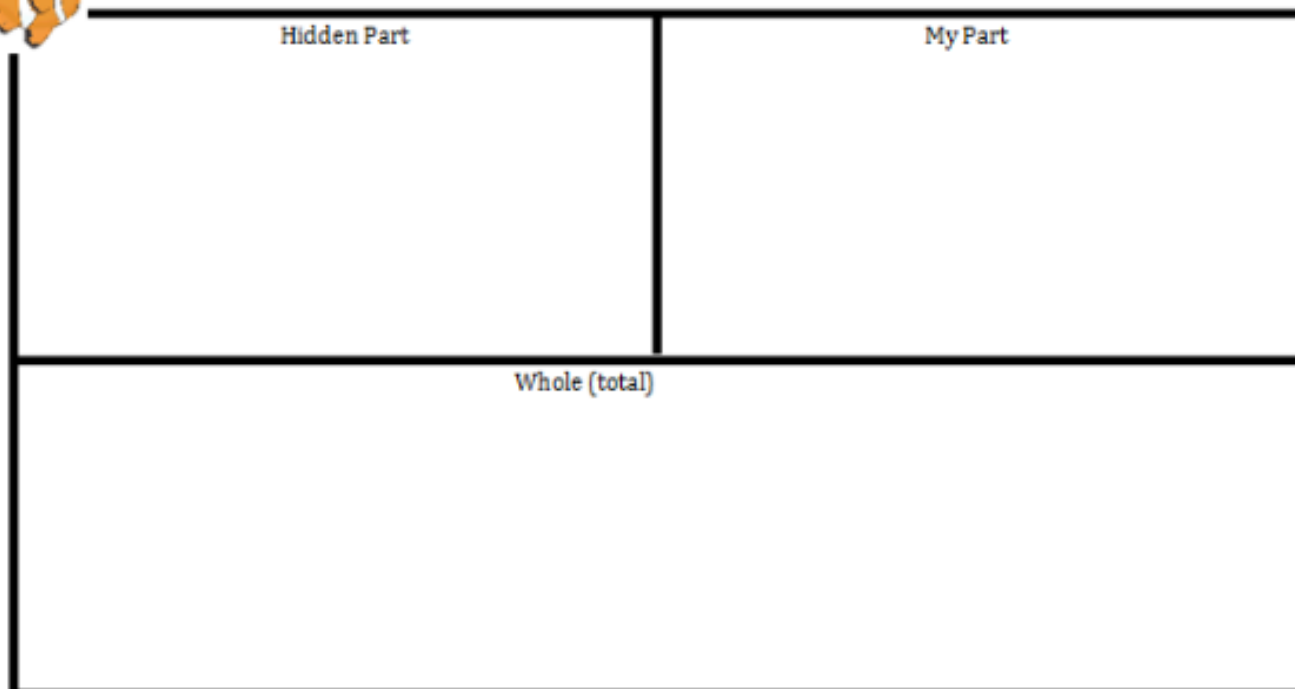
Here is an example using a stick of 6 fish:



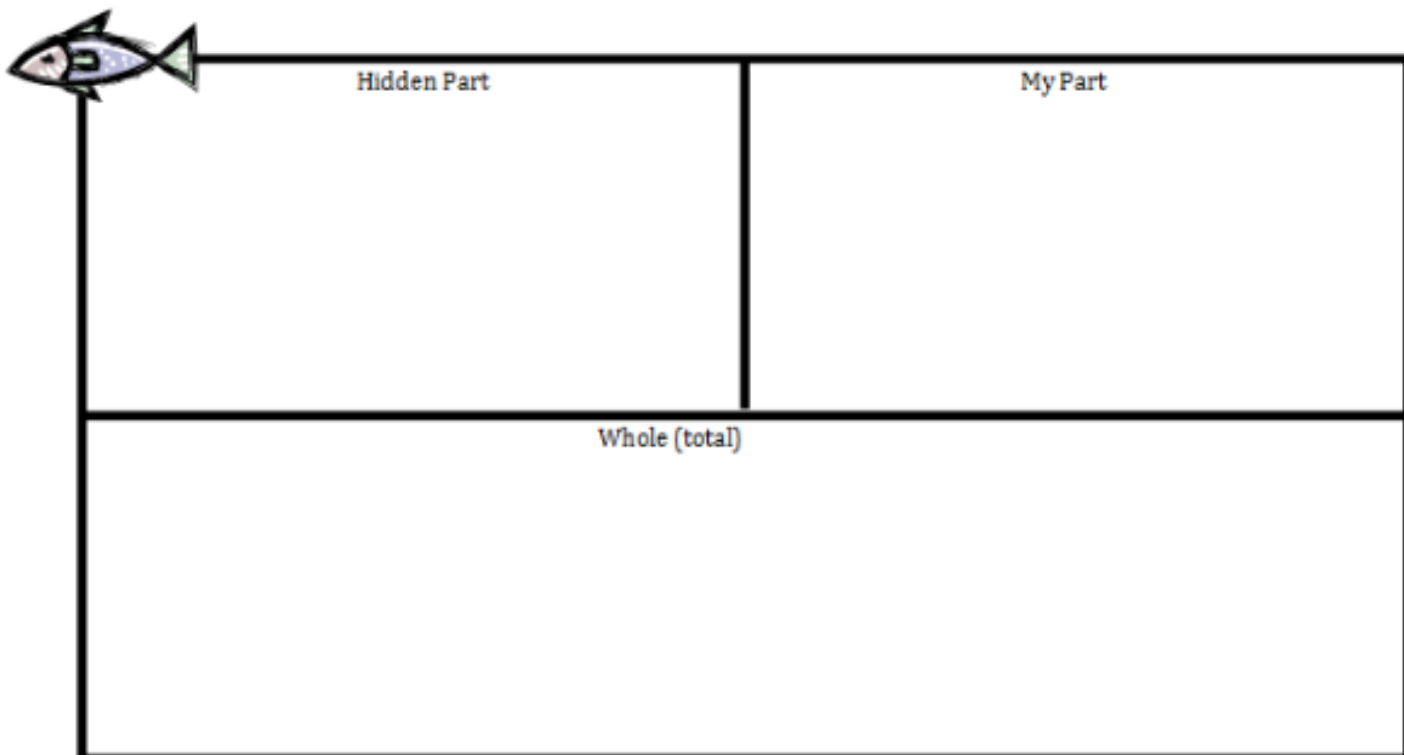
Number Sentence: 6 = 2 + 4



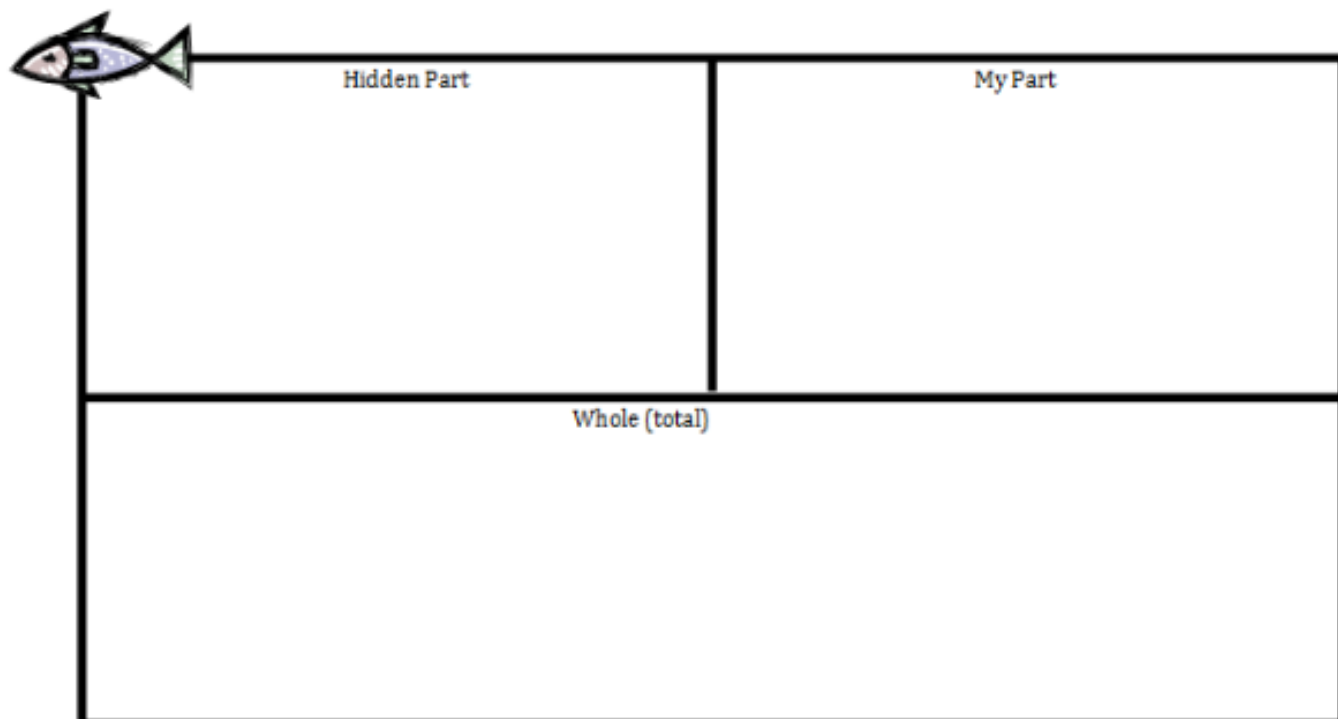
Number Sentence: \_\_\_\_\_ = \_\_\_\_\_ + \_\_\_\_\_



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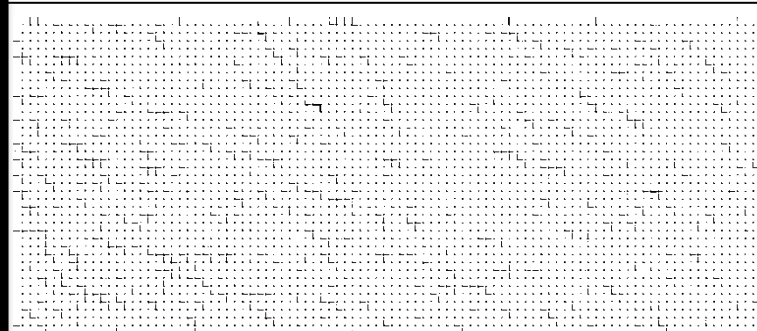
Number Sentence: \_\_\_\_\_ = \_\_\_\_\_ + \_\_\_\_\_



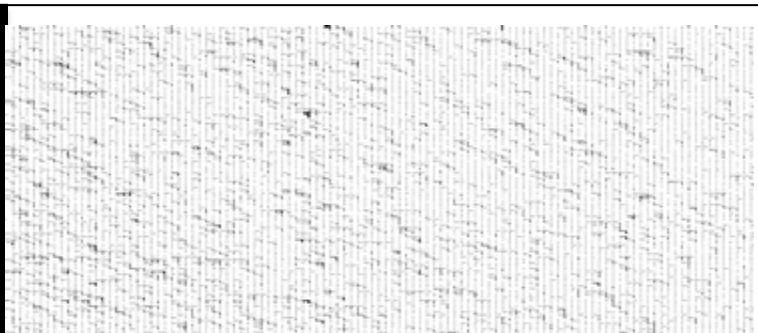
## SANDY SOLUTIONS

Directions: Solve the equations and draw a picture to match.

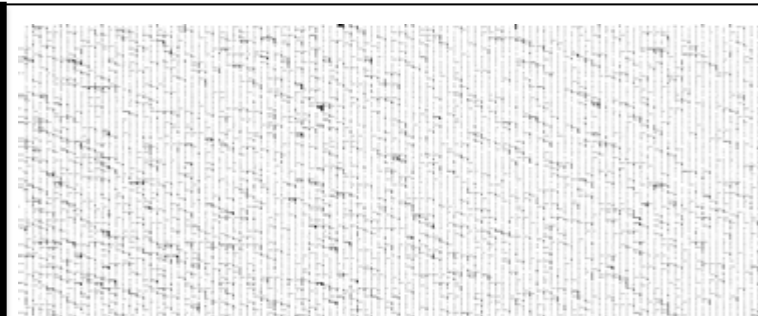
a.

$$8 = \underline{\quad\quad} + \underline{\quad\quad}$$


b.

$$\underline{\quad\quad} + \underline{\quad\quad} = 9$$


c.

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


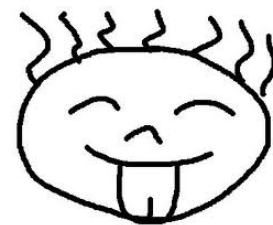
Choose one equation and explain how you solved it. An adult can write for you. Circle one: Equation a b c

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## Measurement Madness

1. Circle the object that is longer.



2. Circle the object that is lighter.



3. Circle the object that will hold more water.



Draw 2 objects from your home. Circle the one that is longer. Discuss how you figured it out.

Draw 2 objects from your home. Circle the one that is heavier. Discuss how you figured it out.

**Review of Kindergarten: Measurement and Data, Activity B**

**Sean and Shianne's Shapes**

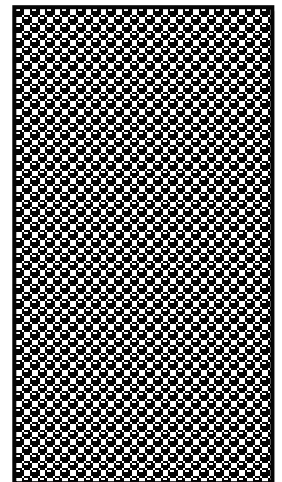
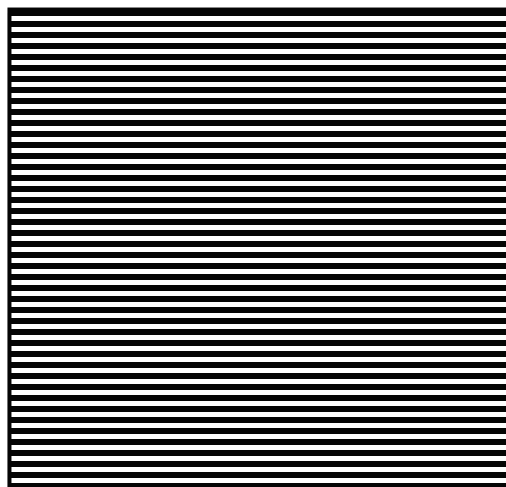
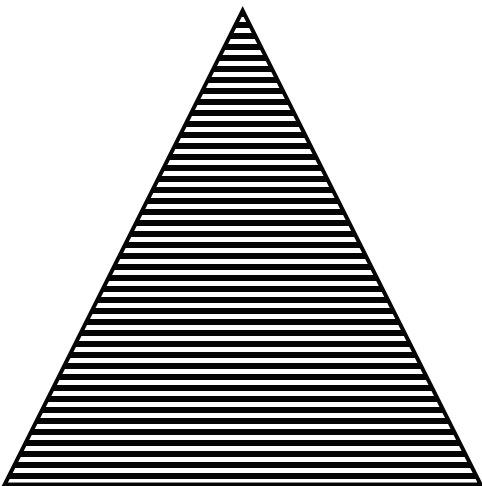
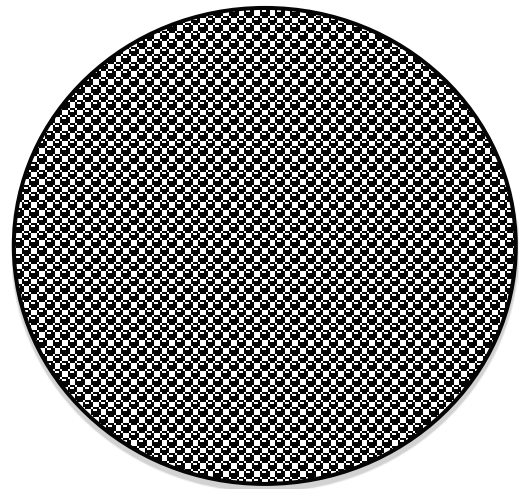
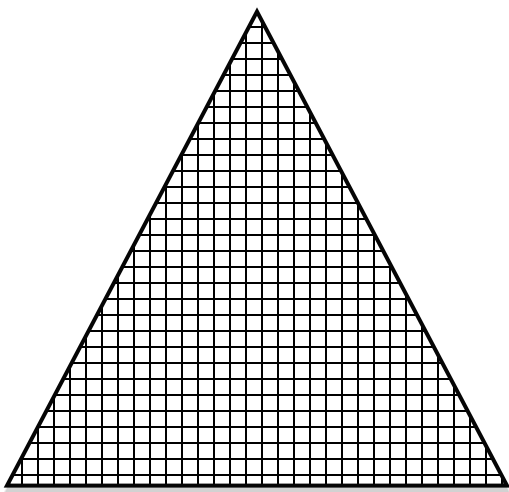
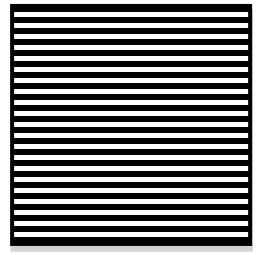
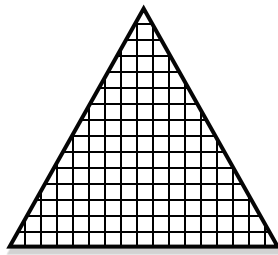
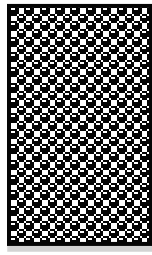
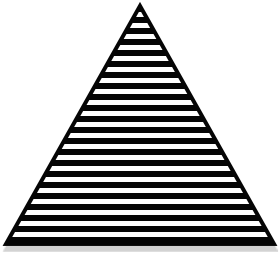


Directions: Sean and Shianne are having trouble sorting their shapes. Can you help them? Cut out the shapes below. Cut out the activity cards and place them face down. Take turns answering questions using the 9 shapes.

<p>Sort the pictures by shape. Explain your thinking.</p>	<p>Sort the pictures by pattern. Explain your thinking.</p>	<p>Which shape occurs the most?</p>
<p>Which shape occurs the least?</p>	<p>Sort the pictures by size. Explain your thinking.</p>	<p>Which pattern occurs the most?</p>
<p>Which pattern occurs the least?</p>	<p>Is there any group that is equal? How do you know?</p>	<p>Skip a turn.</p>

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Cut out shapes.



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## Review of Kindergarten: Geometry, Activity A

# Miniature Golf Geometry

Directions:

Use a marker to move through the miniature golf course. At each "hole" have your child name the shape and tell how many sides and corners. Use the word bank below.

### Word Bank

triangle

circle

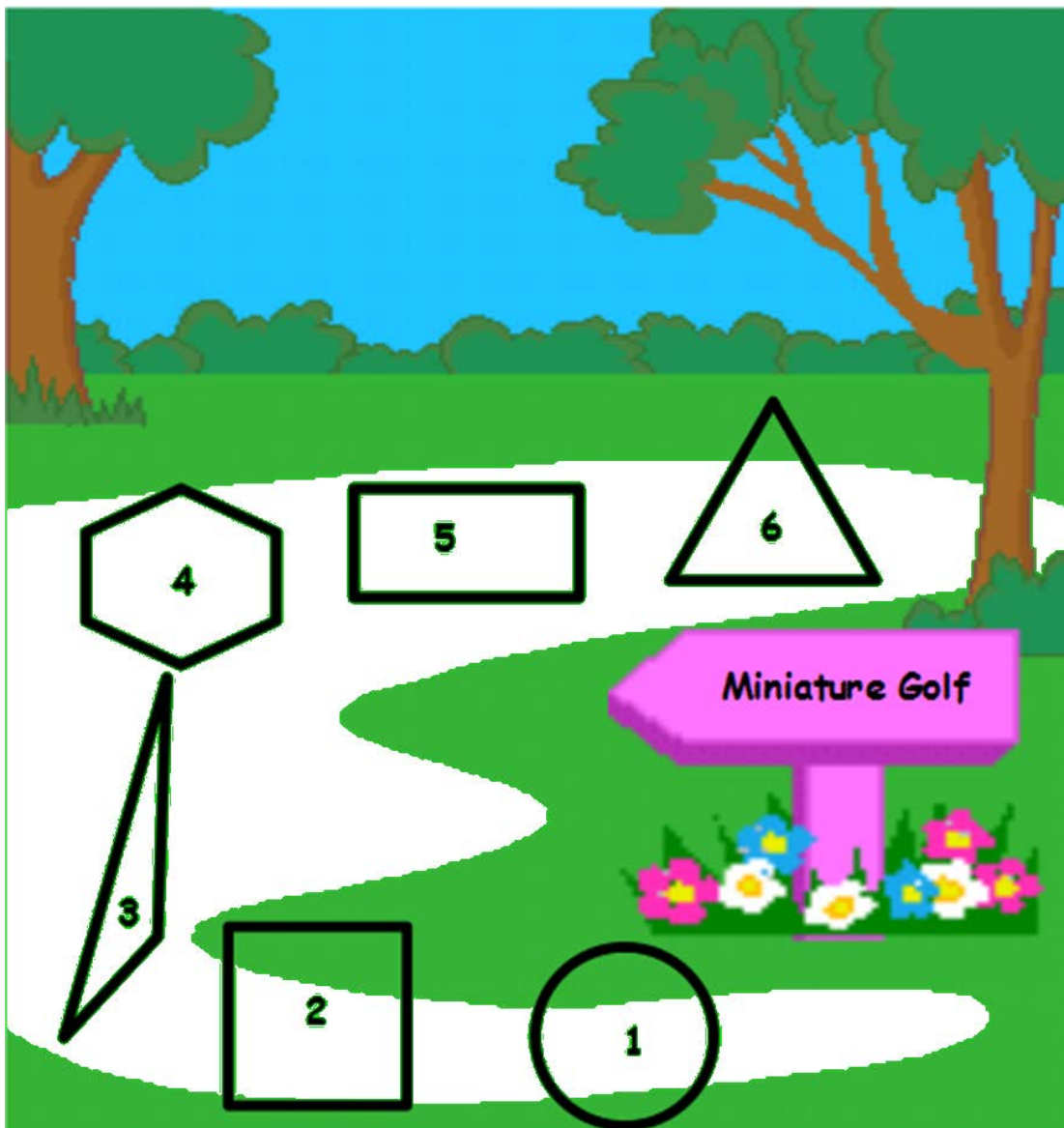
square

rectangle

hexagon

corners

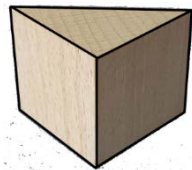
sides



Review of Kindergarten: Geometry, Activity B

# Shape Up!

Directions: Look around your house for three dimensional solid shapes (as opposed to two-dimensional flat shapes). Consider a variety of solids such as a can of soup, a box of cereal, and a ball. Discuss how solids are different from flats. What do you notice about the solid? Record your observations or have someone write for you.

My Solid (three dimensional shape)	What I Observed
my block 	My block has 5 faces. It is made up of triangles and rectangles.



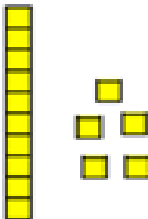
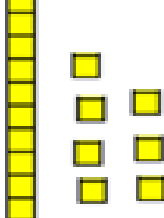


## Batter Up with Base Ten

Directions: Have your child complete the chart by writing a 2 digit number between 11 and 19, representing with blocks, and writing the matching equation which includes a ten plus ones.

16   $10+6=16$

Example:

Number	Base Ten Block Picture	Equations
13		$\underline{\quad} + \underline{\quad} = \underline{\quad}$
		$\underline{\quad} + \underline{\quad} = \underline{\quad}$
19		$\underline{\quad} + \underline{\quad} = \underline{\quad}$
		$\underline{\quad} + \underline{\quad} = \underline{\quad}$
		$10 + 4 = \underline{\quad}$

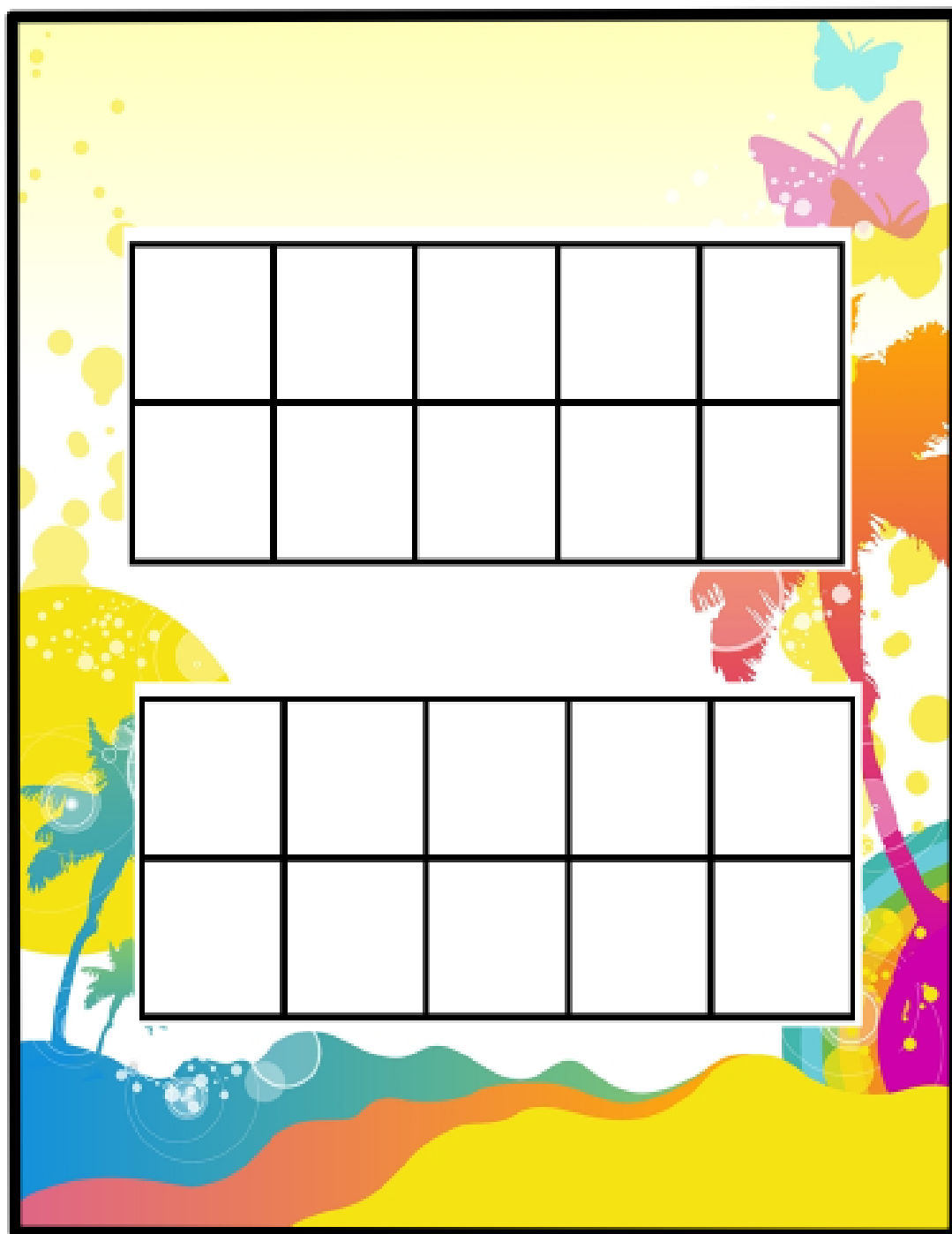
## Review of Kindergarten: Number Operations in Base 10, Activity B

### Directions:

Use the towel game board, containing ten frames, to construct various numbers from 11-19 using small beads, pebbles, or shells. Record the equations on the attached worksheet. All equations should have ten plus some ones. For example,  $12 = 10$  plus 2 ones



## Ten Frame Beach Towel



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# Beach Towel Recording Sheet

$$12 = \underline{10} + \underline{2}$$

$$19 = \underline{\quad} + \underline{\quad}$$

$$13 = \underline{\quad} + \underline{\quad}$$

$$\underline{10} + \underline{5} = 15$$

$$\underline{\quad} + \underline{\quad} = 17$$

$$\underline{\quad} + \underline{\quad} = 11$$

$$\underline{\quad} + \underline{\quad} = 14$$

