

## Kindergarten-Primary Assessment Tools

# Mathematics

**A** knowledge of mathematics is necessary for functioning and solving problems in everyday life. Most young children come to school with a beginning understanding of mathematical concepts, e.g., some idea of the meaning of equal, more, and two. The Chicago Academic Standards identify the math skills and concepts that are important for kindergarten and primary students to learn.

This section contains assessment pages addressing the major math concepts in the Chicago Academic Standards and Curriculum Framework Statements. A page of problems is provided for each topic at each of the targeted grades. The first half of the items on each page are easier problems; the second half are more difficult ones. Teachers can use these sheets to identify students' knowledge of the covered concepts before or after teaching. Almost all can be group-administered although with young children, small groups are preferred. Teachers read the tests to the students.

In addition, a first grade math test and a second grade math test are included. These tests can be used at the end of the year to measure students' progress relative to the Standards.

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# Counting and Number Recognition

Name \_\_\_\_\_ Date \_\_\_\_\_




1. Finish writing the numbers to five.

1, 2, 3, \_\_\_\_\_, \_\_\_\_\_

2. Fill in the missing numbers.

8, 9, \_\_\_\_\_, \_\_\_\_\_, 4, 5, \_\_\_\_\_

3. For each row, put your finger on the named picture. Color the given number.

	3	5	7	2
	4	1	6	3
	8	0	9	4

4. Draw a line to connect the number with the matching number word.

1	two
2	four
3	one
4	five
5	three

*(Note: A dashed line is drawn from the number 1 to the word 'one'.)*

5. Write the numbers to twenty.

0, 1, 2, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

10, 11, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

6. Fill in the missing number.

18, 19, \_\_\_\_\_

10, 11, \_\_\_\_\_

30, 31, \_\_\_\_\_

15, 16, \_\_\_\_\_

7. Write the number in the box to match the number name.

five

two

six

three

one

four

ten

seven

eight

nine

zero

four

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Addition

Name \_\_\_\_\_ Date \_\_\_\_\_

Write the answer to the problem.

1.  $2 + 1 = \underline{\hspace{2cm}}$

2.  $2 + 3 = \underline{\hspace{2cm}}$

3. 
$$\begin{array}{r} 1 \\ +4 \\ \hline \end{array}$$

4. 
$$\begin{array}{r} 5 \\ +2 \\ \hline \end{array}$$

5. 
$$\begin{array}{r} 4 \\ +0 \\ \hline \end{array}$$

6. My mom gave me 3 red balloons. My dad gave me 5 yellow balloons. How many balloons do I have?



$3 + 5 = \underline{\hspace{2cm}}$



7.  $6 + 4 = \underline{\hspace{2cm}}$

8.  $7 + 2 = \underline{\hspace{2cm}}$

9. 
$$\begin{array}{r} 8 \\ +3 \\ \hline \end{array}$$

10. 
$$\begin{array}{r} 9 \\ +0 \\ \hline \end{array}$$

11. 
$$\begin{array}{r} 5 \\ +5 \\ \hline \end{array}$$

12. I saw 7 balls in the gym. I carried in 2 more basketballs. Now there are \_\_\_\_\_ balls in the gym.



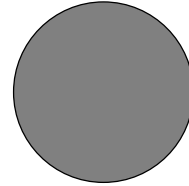
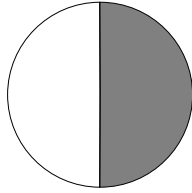
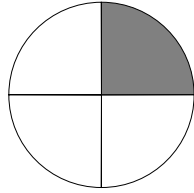
$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

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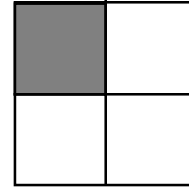
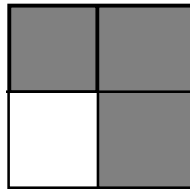
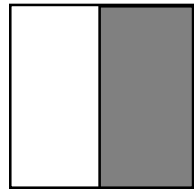
# Fractions

Name \_\_\_\_\_ Date \_\_\_\_\_

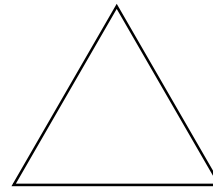
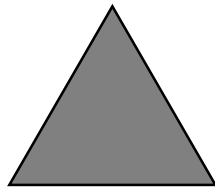
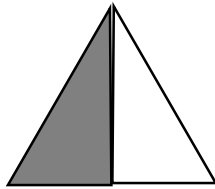
1. Put an X on the circle that is  $\frac{1}{2}$  colored.



2. Put an X on the square that is  $\frac{1}{4}$  colored.



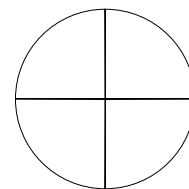
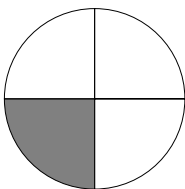
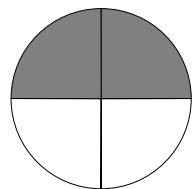
3. Put an X on the triangle that is  $\frac{1}{2}$  colored.



4. Put an X on the rectangle that is  $\frac{1}{3}$  colored.



5. Put an X on the circle that is  $\frac{1}{4}$  colored.



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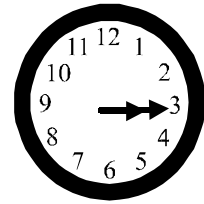
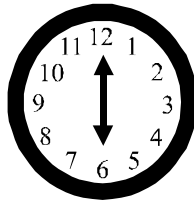
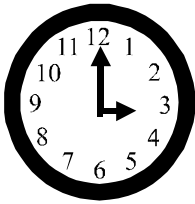
Time and Money

Name \_\_\_\_\_ Date \_\_\_\_\_

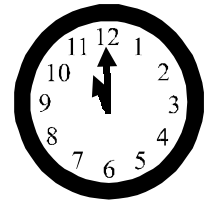
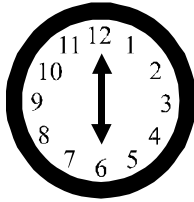
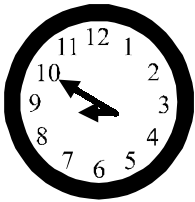
1. How many paper clips long is the line? (Give each child several paper clips.)

\_\_\_\_\_

2. Put an X on the clock that shows 3:00.



3. Put an X on the clock that shows 11:00.



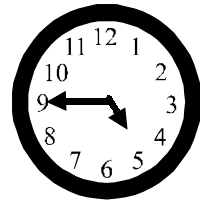
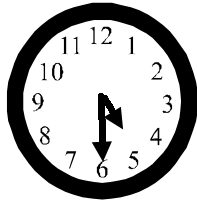
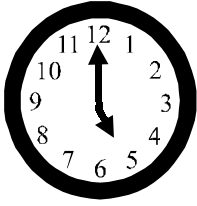
4. Put an X on the nickel.



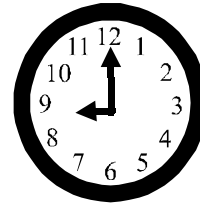
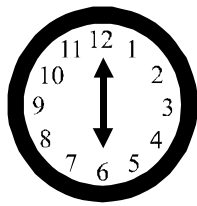
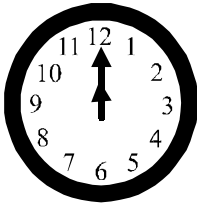
5. Put an X on the dime.



6. Put an X on the clock that shows 4:30.



7. Put an X on the clock that shows 12:00.



8. Put an X on the coin that equals 25¢.



9. Add the coins. Write down the amount.



¢

\_\_\_\_\_

10. Add the coins. Write down the amount.



¢

\_\_\_\_\_

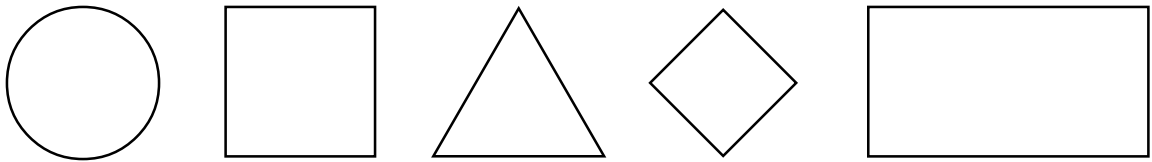
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Shapes and Patterns

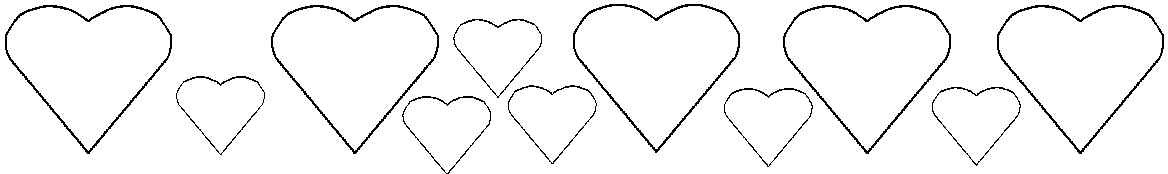
Name \_\_\_\_\_

Date \_\_\_\_\_

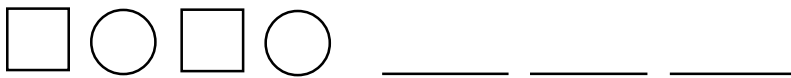
1. Put an X on the triangle. (Teacher may name other shapes or ask students to color each shape a certain color.)



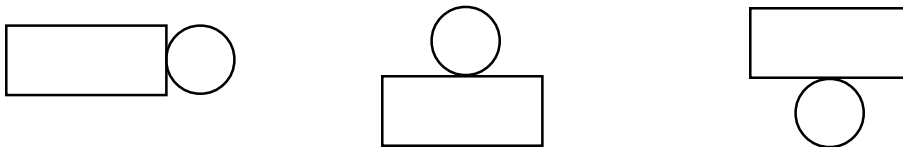
2. Color all the large hearts.



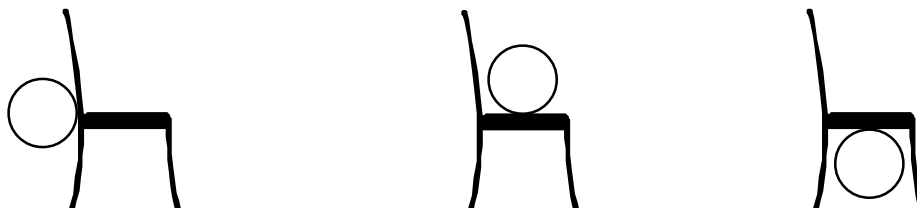
3. Finish the pattern.



4. Put an X on the picture of the circle under the box.

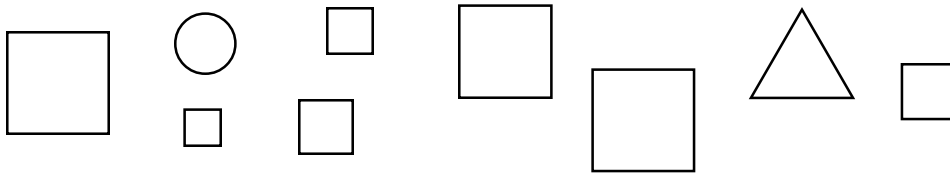


5. Put an X on the picture of the ball next to the chair.

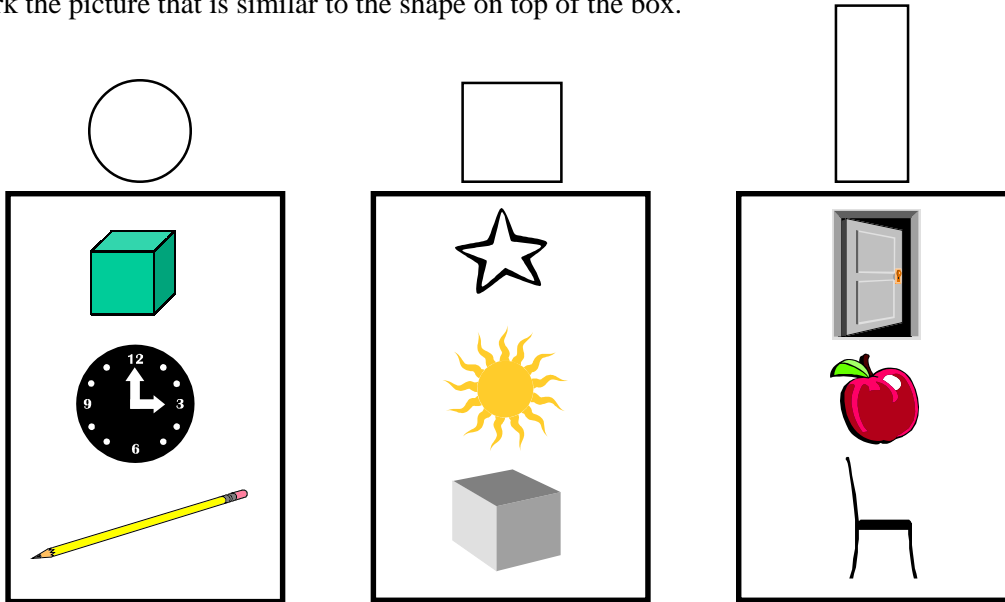




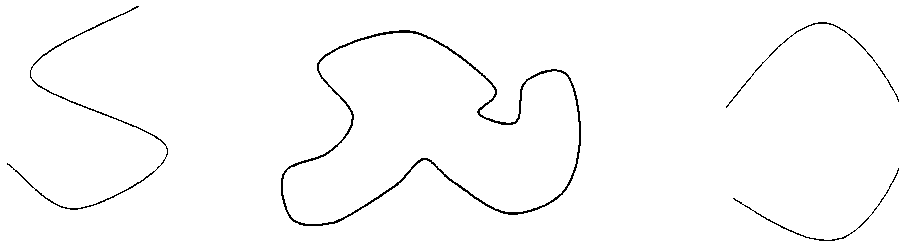
6. Color all the squares.



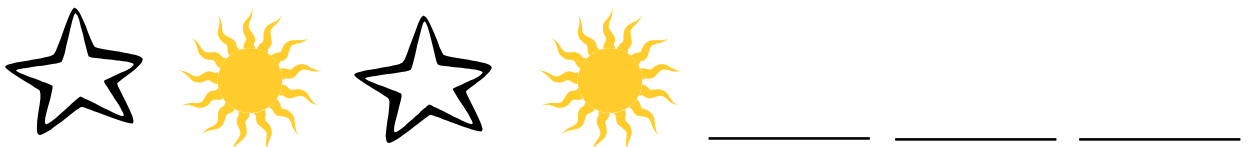
7. Mark the picture that is similar to the shape on top of the box.



8. Put an X on the closed shape.



9. Finish the pattern.



10. Finish the pattern.



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Number Relationships and Symbols

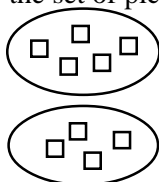
Name \_\_\_\_\_

Date \_\_\_\_\_

Draw a line to the set of pictures that equals the number.

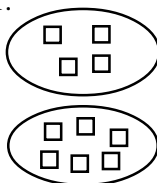
1.

4



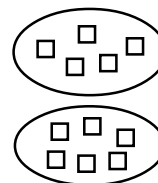
2.

6

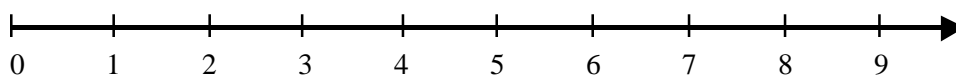


3.

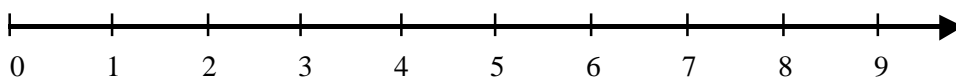
5



4. On the number line, circle the number that is given. (Teacher chooses a number.)



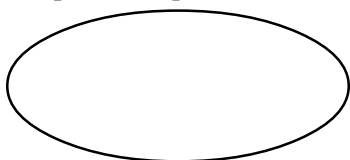
5. On the number line, circle the number that is given. (Teacher chooses a number.)



Draw a set of shapes that equals the number.

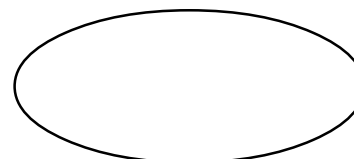
6.

6

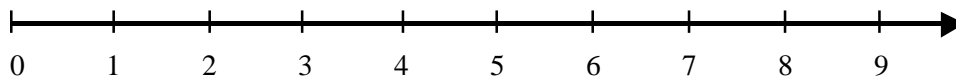


7.

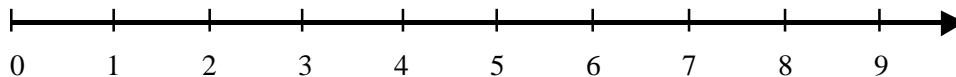
7



8. On the number line, circle the number that comes after 6.



9. On the number line, show this addition problem,  $2 + 3 = 5$



10. Write an addition sentence for the picture.



\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

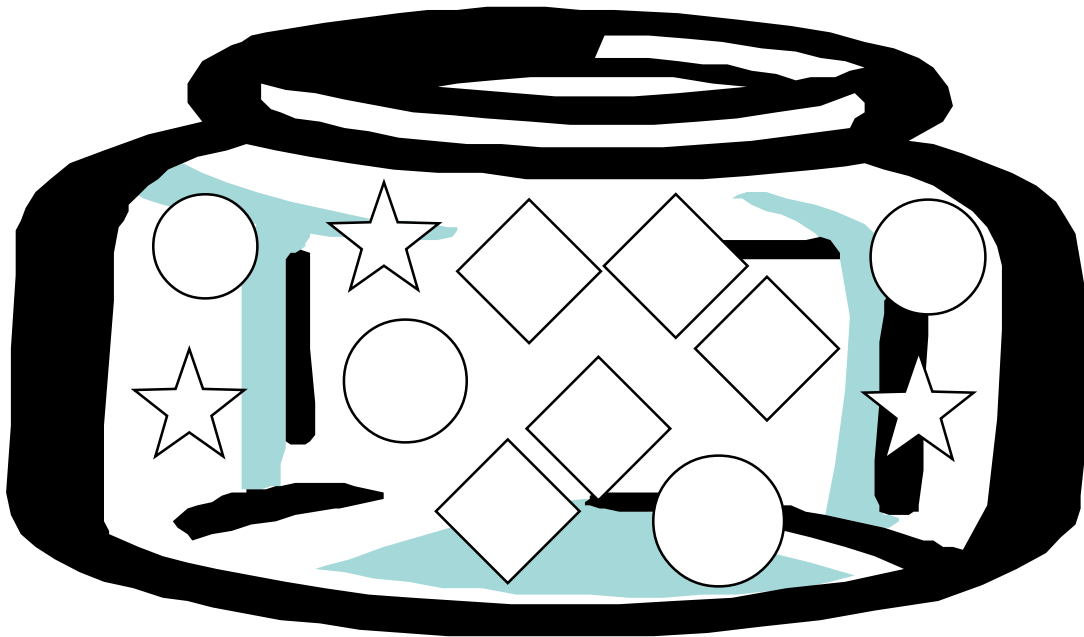
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# Picture Graph

Name \_\_\_\_\_


Date \_\_\_\_\_

1. Using the picture of the cookie jar, count the number of cookies.

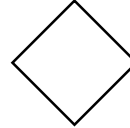
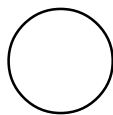


1. How many  cookies? \_\_\_\_\_

2. How many  cookies? \_\_\_\_\_

3. How many  cookies? \_\_\_\_\_

4. Most of the cookies in the cookie jar are what shape? Circle the correct shape.



Using the picture of the cookie jar, color the correct number of bars for each shape.

Cookies	Number of Cookies				
	1	2	3	4	5
