

# End-of-Year Test

## Part 1

You may use base-ten pieces, a number line, an individual clock, and the *Addition Strategies Menu* and *Subtraction Strategies Menu* in the *Student Activity Book Reference* section.

1. Fill in the circle with  $>$ ,  $<$ , or  $=$  to make each statement true.

A.  $9 + 5$  ○  $10 + 4$

B.  $6 + 5$  ○  $15 - 2$

C.  $6 + 9$  ○  $7 + 9$

D.  $15 - 8$  ○  $3 + 4$

E.  $14 - 8$  ○  $12 - 7$

$>$  greater than  
 $<$  less than  
 $=$  equal to



2. Circle True or False for each problem.

A.  $3 \text{ hundreds} + 4 \text{ tens} + 2 \text{ ones} = 342$       True      False

B.  $216 = 2 \text{ hundreds} + 16 \text{ ones}$       True      False

C.  $115 = 100 + 5$       True      False

D.  $200 + 30 + 8 = 238$       True      False

E.  $10 + 10 + 10 + 1 = 30 + 1$       True      False



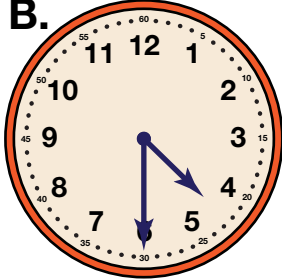
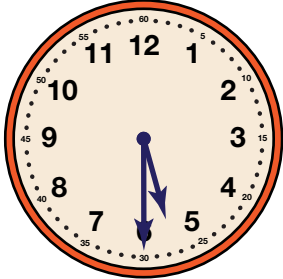
3. Place a number in the box to make the number sentence true.

A.  $100 + 20 + 4 = 50 + 50 + 10 + \square + 4$

B.  $10 + 10 + 10 + 10 + 10 + 2 = \square + 2$

C.  $5 + 5 + 6 = \square + 6$

4. Write the time under each clock. Use your individual clocks and number lines to tell how many minutes have passed. Circle the activity you could do in that many minutes. Choose AM OR PM.

Start Time	End Time	How Many Minutes Have Passed?	What Could Have Happened?	AM OR PM
<p><b>A.</b></p>  _____	 _____		Work on math in math class  Eat dinner	
<p><b>B.</b></p>  _____	 _____		Work on homework  Eat lunch	

5. Frank had 81 newspapers to deliver. By noon, he had finished delivering 39 newspapers. Estimate how many newspapers he had left. Show or tell how to estimate the answer.

6. Diana had to solve this problem for homework:

$$\begin{array}{r} 54 \\ - 28 \\ \hline \end{array}$$

A. Use base-ten pieces to solve  $54 - 28$ .

B. Use expanded form to solve  $54 - 28$ .

C. Use the compact method to solve  $54 - 28$ .

$$\begin{array}{r} 54 \\ - 28 \\ \hline \end{array}$$

D. Check your answer by solving it another way or by using addition.

**Show or tell how to solve each problem below.**

**7. A.** Natasha put 50 cc of water in her graduated cylinder. She placed an object in the water and the water level went up to 82 cc. What is the volume of her object?

**B.** Levi put 80 cc of water in his graduated cylinder. He placed an object in the water and the water level went up to 84 cc. What is the volume of his object?

**C.** Whose object has the greater volume: Natasha's or Levi's?

\_\_\_\_\_

**8.** Circle True or False for each problem.

**A.**  $3 + 3 + 3 + 3 = 4 \times 3$

True      False

**B.**  $5 + 5 + 5 + 5 = 5 \times 5$

True      False

**C.**  $2 \times 4 = 2 + 2 + 2$

True      False

**9.** Emily is making 4 shirts. Each shirt will have 5 buttons. How many buttons does she need?

**A.** Circle the number sentence you would use to solve the problem.

$$4 + 5 =$$

$$4 \times 5 =$$

**B.** Show or tell how to solve the problem.

**Draw a picture for each problem and write a number sentence.**

**10.** Make 4 rows of 5.

Number sentence \_\_\_\_\_

**11.** Make 4 rows of 3.

Number sentence \_\_\_\_\_

**Circle True or False for each statement. Show or tell how you know.**

**12.** 3 rows of 5 = 5 rows of 3                      True                      False

**13.** 3 rows of 3 = 2 rows of 4                      True                      False

**Part 2**

You may use a number line, base-ten pieces, a ruler, pattern blocks, and the *200 Chart*, *Addition Strategies Menu* and *Subtraction Strategies Menu* in the *Student Activity Book* Reference section.

**14.** Circle all the number sentences that have an even number for the sum.

**A.**  $4 + 4$

**B.**  $8 + 8$

**C.**  $3 + 3 + 1$

**D.**  $9 + 9$

**E.**  $7 + 7 + 1$

**F.**  $1 + 1 + 1$

**Solve each problem and write a number sentence. Show or tell how you solved each problem. Remember to label your answers.**

- 15.** Nisha bought 5 rows of stickers. Each row has 5 stickers. Each sticker costs 3 cents.

**A.** How many stickers did Nisha buy?

Number sentence \_\_\_\_\_

**B.** What is the total cost of all the stickers?

Number sentence \_\_\_\_\_

**Solve each problem and write a number sentence. Show or tell how you solved each problem. Remember to label your answers.**

- 16.** Chris has 3 cups. He put 6 beans in each cup. How many beans does he have?

Number sentence \_\_\_\_\_

- 17.** Rosa has 20 apples. She wants to give each of her friends 4 apples. How many friends can share the apples?

Number sentence \_\_\_\_\_

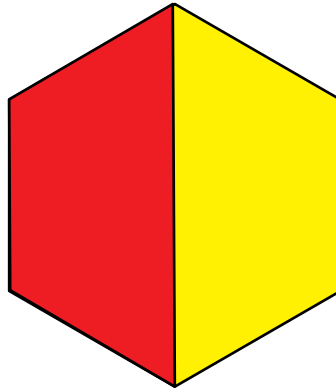
- 18.** The zookeeper has 16 bananas. He wants to give each monkey a fair share of the bananas. If there are 4 monkeys, how many bananas will each monkey get?

Number sentence \_\_\_\_\_

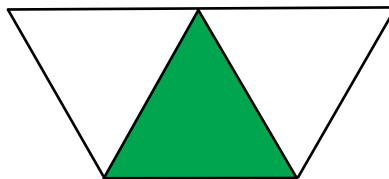
- 19.** Look at the pictures of the shapes. Use the words in the box to fill in the spaces with the correct answers.

**half      fourth      third      sixth      eighth**

- A.** The red trapezoid is one-\_\_\_\_\_ of the yellow hexagon.

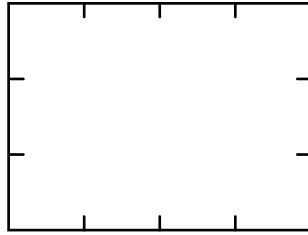


- B.** The green triangle is one-\_\_\_\_\_ of the red trapezoid.





**20.** This is a whole.



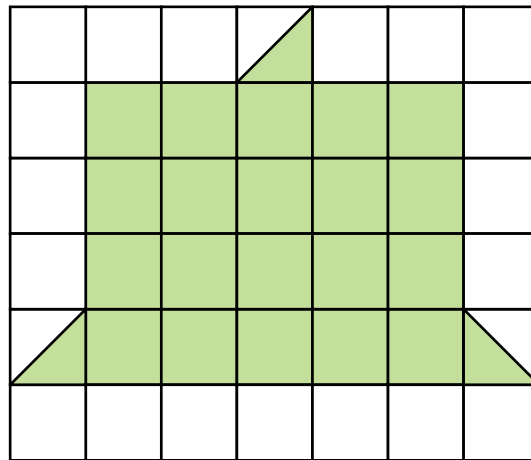
**A.** Use a ruler and the tick marks to draw a grid on the rectangle. What is the area of the rectangle?

\_\_\_\_\_

**B.** Shade in one-half of the rectangle. How many squares did you shade?

\_\_\_\_\_

**21.** Find the area of the shape below. Remember to include units in your answer.



Area \_\_\_\_\_

**22.** Solve the problems below two different ways: use a mental math strategy and a paper-and-pencil method.

**A.**     364  
       + 217

Mental Math Strategy

Paper-and-Pencil Method

**B.**     786  
       - 329

Mental Math Strategy

Paper-and-Pencil Method

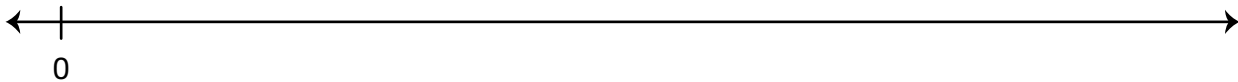
**23.** Fill in the missing values in the Rule Machine. Write the rule.

Rule:	
Input	Output
1	2
3	6
4	
6	12
	16
10	

**24.** Model the number on the number line. Write a number sentence that shows how the base-ten hopper hopped on the number line.

A base-ten hopper made 2 hops of 100, 3 hops of 10, and 4 hops of 1. What number did it land on?

\_\_\_\_\_



Number sentence \_\_\_\_\_

**25.** Place the numbers in order from smallest to largest.

**A.** 922, 1045, 958

\_\_\_\_\_

**B.** 348, 299, 801

\_\_\_\_\_

**C.** 1004, 1010, 987

\_\_\_\_\_