# 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.

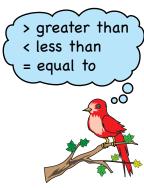
**A.** 
$$9 + 5$$
 10 + 4

- **B.** 6 + 5 15 2
- **C.**  $6 + 9 \bigcirc 7 + 9$

**D.** 
$$15 - 8) 3 + 4$$

- **E.** 14 8 12 7
- 2. Circle True or False for each problem.
  - A. 3 hundreds + 4 tens + 2 ones = 342TrueFalseB. 216 = 2 hundreds + 16 onesTrueFalseC. 115 = 100 + 5TrueFalseD. 200 + 30 + 8 = 238TrueFalseE. 10 + 10 + 10 + 1 = 30 + 1TrueFalse
- 3. Place a number in the box to make the number sentence true.
  - **A.** 100 + 20 + 4 = 50 + 50 + 10 + 4
  - **B.** 10 + 10 + 10 + 10 + 10 + 2 = | + 2

**C.** 
$$5 + 5 + 6 =$$
 + 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
A.			Work on math in math class Eat dinner	
B. 11 12 1 10 2 9 3 8 8 	5 11 12 1 5 10 2 <sup>10</sup> 5 9 3 10 5 8 4 20 5 7 5 5		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.

Na	me
----	----

- 6. Diana had to solve this problem for homework:
  - 54 <u>- 28</u>
  - **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.
  - 54 <u>- 28</u>
- **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.

Α.	$3 + 3 + 3 + 3 = 4 \times 3$	True	False
В.	$5 + 5 + 5 + 5 = 5 \times 5$	True	False
C.	$2 \times 4 = 2 + 2 + 2$	True	False

Name		

- **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 the 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.

Ν	ame
---	-----

Date \_\_\_\_\_

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.

Α.	4 + 4	В.	8 + 8
C.	3 + 3 + 1	D.	9 + 9
Е.	7 + 7 + 1	F.	1 + 1 +

1

Name	

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 \_\_\_\_\_

Ν	a	m	ne
---	---	---	----

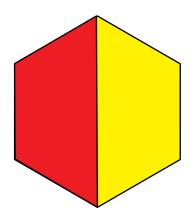
**18.** The zookeeper has 16 bananas. He wants to give each monkey a fair share of the bananas. If there are 4 monkeys, how many bananas will each monkey get?

Number sentence	

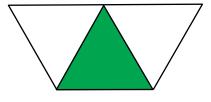
**19.** Look at the pictures of the shapes. Use the words in the box to fill in the spaces with the correct answers.

half fourth	third	sixth	eighth
-------------	-------	-------	--------

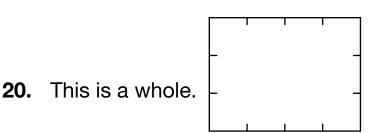
A. The red trapezoid is one-\_\_\_\_\_ of the yellow hexagon.



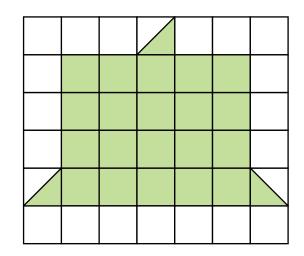
**B.** The green triangle is one-\_\_\_\_\_ of the red trapezoid.



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



- 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 \_\_\_\_\_

Ν	a	m	۱e
---	---	---	----

**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	

Copyright © Kendall Hunt Publishing Company

Name	

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

Name	Date			
End	-of-Year Test			
Part 1You may use base-ten picand the Addition StrategiMenu in the Student Acti1. Fill in the circle with statement true.A. $9 + 5 \bigcirc 10 + 4$ B. $6 + 5 \bigcirc 15 - 3$	es <i>Menu</i> and <i>Subtrac</i> vity <i>Book</i> Reference s >, <, or = to make ea 4	tion Strat section.	ater than	
C. 6 + 9 7 + 9 D. 15 - 8 3 + E. 14 - 8 12 - 2. Circle True or False f	7			
<ul> <li><b>A.</b> 3 hundreds + 4 t</li> <li><b>B.</b> 216 = 2 hundred</li> </ul>		True True	False False	Copyright @
<ul> <li>C. 115 = 100 + 5</li> <li>D. 200 + 30 + 8 = 1</li> <li>E. 10 + 10 + 10 + 10 + 10</li> </ul>		True True True	False False False	Copyright © Kendall Hunt Publishing Company
	50 + 50 + 10 +	- 4	ence true.	lg Company
TG • Grade 2 • Unit 15 • Lesson 6		Assess	ment Master	

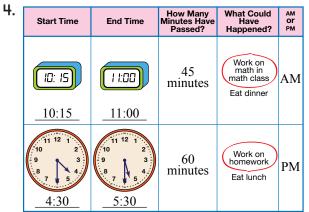


	and number	ne under each c lines to tell how tivity you could	many minute	individual clo s have passed	ł.
	Start Time	End Time	How Many Minutes Have Passed?	What Could Have Happened?	AM Or PM
-	A.	1:00		Work on math in math class Eat dinner	
	B. 11 12 1 9 3 8 7 5	11 12 1 10 2 9 3 8 7 5 4		Work on homework Eat lunch	
Oppright @ Kendal Hurt Publishing Company	delivering 39	1 newspapers to 9 newspapers. E Show or tell how	stimate how r	nany newspap	
Asse	ssment Master		TG • Grad	e 2 • Unit 15 • Lesso	n 6 2

Teacher Guide - Page 2

#### End-of-Year Test (TG pp. 1–11) Questions 1–25 Part 1

- I. A. = B. <
  - D. <
  - **D.** =
  - **E.** >
- **2. A.** True
  - B. True
  - C. False
  - D. True
  - E. True
- **3. A.** 10
  - **B.** 50
  - **C.** 10



**5.** 40 newspapers. Responses will vary. Possible response: I used friendly numbers. I rounded 81 to 80 and 39 to 40.

I subtracted 80 - 40 = 40 newspapers.

6. A.  

$$\begin{array}{r} 54 \\ -28 \\ 26 \\ \hline
\end{array}$$
B.  $54 = 50 + 4 = 40 + 14 \\ \underline{28 = 20 + 8 = 20 + 8} \\ 20 + 6 = 26 \\ \hline$ 
C.  $\begin{array}{r} 414 \\ 54 \\ -28 \\ 26 \\ \hline
\end{array}$ 

- **D.** Responses may vary. Possible response:
  - $\frac{28}{\pm 26}$

Strategies may vary for *Questions* 7–9. Possible strategies are shown for each problem.

- **7. A.** 32 cc. Possible strategy: I started at 50 and counted up to 82 by tens and ones. My answer is 32 cc.
  - **B.** 4 cc. Possible strategy: I started at 80 and counted up to 84. My answer is 4 cc.
  - **C.** Natasha's object has a greater volume. Her object is 32 cc and Levi's object is 4 cc.
- 8. A. True
  - **B.** False
  - C. False

Name	Date	
6.	Diana had to solve this problem for homework: 54 <u>- 28</u>	
	A. Use base-ten pieces to solve 54 - 28.	
	<b>B.</b> Use expanded form to solve 54 - 28.	
	C. Use the compact method to solve 54 – 28. 54 – 28	Copyright © Kendall Hunt Publishing Company
	D. Check your answer by solving it another way or by using addition.	nt Publishing Company
3 та	• Grade 2 • Unit 15 • Lesson 6 Assessment Master	

Teacher Guide - Page 3

82 cc. What is the volume of <b>B.</b> Levi put 80 cc of water in his	n her graduated cylinder. She r and the water level went up t her object? graduated cylinder. He placed e water level went up to 84 cc ject?
placed an object in the water 82 cc. What is the volume of I <b>B.</b> Levi put 80 cc of water in his an object in the water and the What is the volume of his object	r and the water level went up t her object? graduated cylinder. He placed e water level went up to 84 cc ject?
an object in the water and the What is the volume of his obje	e water level went up to 84 cc ject?
C. Whose object has the greater	
	r volume: Natasha's or Levi's?
8. Circle True or False for each pro	oblem.
<b>A.</b> $3 + 3 + 3 + 3 = 4 \times 3$	True False
<b>B.</b> $5 + 5 + 5 + 5 = 5 \times 5$	True False
<b>C.</b> $2 \times 4 = 2 + 2 + 2$	True False

Teacher Guide - Page 4

Vame	Date
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 the solve the
	problem.
	$4+5= \qquad 4\times 5=$
	<b>B.</b> Show or tell how to solve the problem.
	a picture for each problem and write a number sentence.
	a picture for each problem and write a number sentence. Make 4 rows of 5.
	Make 4 rows of 5.
10.	Make 4 rows of 5.
10.	Make 4 rows of 5.
10.	Make 4 rows of 5.
10.	Make 4 rows of 5.
10.	Make 4 rows of 5.

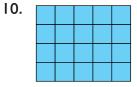


	Name	Date	
	Circle True or False for each sta know.	atement. Show o	or tell how you
	<b>12.</b> 3 rows of 5 = 5 rows of 3	True	False
	<b>13.</b> 3 rows of 3 = 2 rows of 4	True	False
	<ul> <li>Part 2</li> <li>You may use a number line, bas blocks, and the 200 Chart, Addi Subtraction Strategies Menu in Reference section.</li> <li>14. Circle all the number senter for the sum.</li> </ul>	tion Strategies I the Student Act	Menu and tivity Book
hany	<b>A.</b> 4 + 4	<b>B.</b> 8 + 8	
lishing Co	<b>C.</b> 3 + 3 + 1	<b>D.</b> 9 + 9	
	<b>E.</b> 7 + 7 + 1	<b>F.</b> 1 + 1 + 1	
· Kendall Hunt Pu			
Copyright © Kendall Hunt Publishing Company			

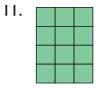


- **9. A.** 4 + 5 =  $(4 \times 5 =)$ 
  - **B.** Responses will vary. Possible response:





Number sentence:  $4 \times 5 = 20$ 



Number sentence:  $4 \times 3 = 12$ 

- **12.** True. Possible response: 3 rows of 5 = 15 and 5 rows of 3 = 15.
- **13.** False. Possible response: 3 rows of 3 = 9 and 2 rows of 4 = 8.

+ 8

+ 9

+1 + 1

#### Part 2

I4.
 A. 
$$4 + 4$$
 B. 8

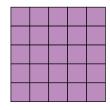
 C.  $3 + 3 + 1$ 
 D. 9

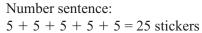
 E.  $7 + 7 + 1$ 
 F. 1

Copyright © Kendall Hunt Publishing Company

For *Questions 15–18*, solutions may vary. Possible solutions are given.

**15. A.** 25 stickers. Possible solution:





**B.** 75¢

3	3	3	3	3
3	3	3	3	3
3	3	3	3	3
3	3	3	3	3
3	3	3	3	3

Possible solution: I know that  $3 \times 25$  is the same as  $25 \times 3$ , so I added 25 three times. If I have 3 quarters, that's 75, so the answer is  $75 \notin$ .

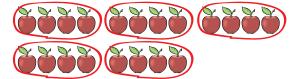
Number sentence: 25 stickers  $\times 3\phi = 75\phi$ 

**16.** 18 beans. Possible solution:



Number sentence: 3 cups  $\times$  6 beans = 18 beans

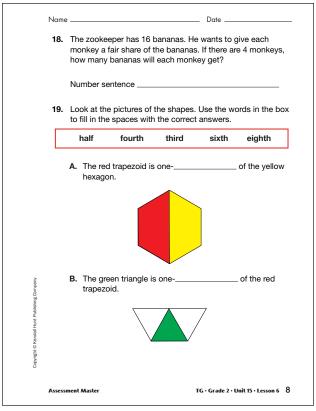
**17.** 5 friends. Possible solution:



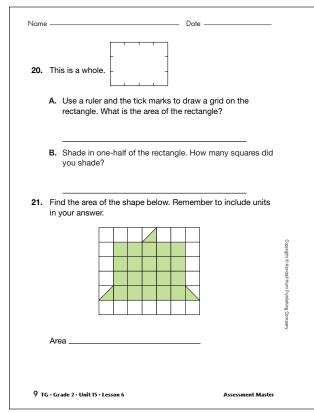
Number sentence: 20 apples  $\div$  4 apples per friend = 5 friends

Nam	e Date	
	e each problem and write a number sentence. Show or tell	
how	you solved each problem. Remember to label your wers.	
	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	
how	e each problem and write a number sentence. Show or tell you solved each problem. Remember to label your vers.	
	Chris has 3 cups. He put 6 beans in each cup. How many beans does he have?	Copyright
	Number sentence	© Kendall Hu
17.	Rosa has 20 apples. She wants to give each of her friends 4 apples. How many friends can share the apples?	Copyright © Vendall Hunt Publishing Company
	Number sentence	any
7 тб	• Grade 2 • Unit 15 • Lesson 6 Assessment Maste	r

Teacher Guide - Page 7

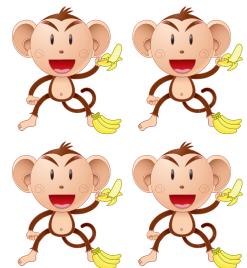


#### **Teacher Guide - Page 8**





**18.** 4 bananas. Possible solution:



Number sentence: 16 bananas  $\div$  4 monkeys = 4 bananas

- **19. A.** half
  - **B.** third
- 20. A. 12 square units
  - **B.** 6 squares
- **21.** Area:  $21\frac{1}{2}$  square units

Date

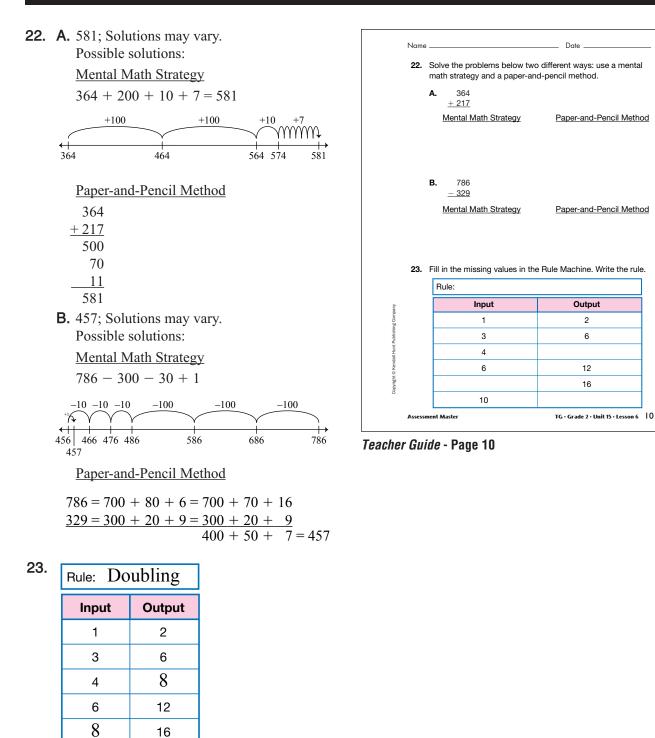
Output

2

6

12

16



20

10

Name	Date	_
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?	
<++ 0	,	•
	Number sentence	
25.	Place the numbers in order from smallest to largest.	
	<b>A.</b> 922, 1045, 958	
	<b>B.</b> 348, 299, 801	
	<b>C.</b> 1004, 1010, 987	
Пт	G · Grade 2 · Unit 15 · Lesson 6 Assessment Mas	ter

Teacher Guide - Page 11



