

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

## Expressions and Addition Properties

**Practice to review...** I can read, write, and evaluate expressions and apply addition properties!

Harriett has a sticker collection. She gives five of her stickers to Ronnie.  
How many stickers does Harriett have left?

Write an expression to describe the number of number of stickers Harriett has left.

Let \_\_\_\_\_ represent the number of stickers Harriett started with.

We can use variables  
to represent values we  
don't know!

\_\_\_\_\_ = number of stickers Harriett has left

Think about the story...  
Will Harriett have more  
or fewer stickers now?  
What operation makes  
sense?

**Suppose Harriett started with 8 stickers. How many stickers does she have left?**

If Harriet started with 8 stickers, then \_\_\_\_\_ = 8.

Rewrite the expression and solve to show the number of stickers Harriett has left.

\_\_\_\_\_ = \_\_\_\_\_ stickers

### Practice to remember...

Write an algebraic expression for each word phrase or story.

1. add 12 to a number                      2. 3 less than a number                      3. the sum of 14 and a number

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

4. 12 more than a number                      5. take 16 from a number                      6. a number reduced by 5

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7. In Mrs. Campbell's class, there are 17 boys and some girls.  
Write an expression to describe the number of students in Mrs. Campbell's class.

\_\_\_\_\_

Translate each algebraic expression into words.

8.  $k + 9$

9.  $25 - a$

10.  $x - 7$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write  $>$ ,  $<$ , or  $=$  to compare the expressions, given  $b = 18$ .

11.  $b - 0$    $36 - b$

12.  $7 + b$    $b + 7$

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

# Remembering

## Practice for fluency...

- |  |  |
|--|--|
| <p><b>13.</b> There are <b>1,000</b> seats in a theater. So far, <b>762</b> seats have been filled. How many more seats are available?</p> <p>a. 362</p> <p>b. 338</p> <p>c. 248</p> <p>d. 238</p> | <p><b>14.</b> Inez is climbing a <b>6,050</b>-foot mountain. Her backpack weighs <b>22</b> pounds. So far, she has climbed <b>4,903</b> feet. How much further does she need to climb to reach the top?</p> <p>a. 10,953 feet</p> <p>b. 1,157 feet</p> <p>c. 1,147 feet</p> <p>d. 1,125 feet</p> |
|--|--|

Write the **place** of the underlined digit.

15. 813,709,426 \_\_\_\_\_

16. 68,091,352,426 \_\_\_\_\_

Write the **value** of the underlined digit.

17. 813,709,426 \_\_\_\_\_

18. 68,091,352,426 \_\_\_\_\_

Answer each question. Use pictures, numbers, or words to show how you know.

**19.** Josh and Meg are in an after-school club. The club is making a domino line. Josh and Meg each added **350** dominoes to the line. If **2,758** dominoes were added altogether, how many were added by other club members? Show how you know.

**20.** If the pattern continues, what will be the next figure? Explain.



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

# Estimate Sums and Differences

Practice to review... I can estimate sums and differences for whole numbers and decimals!

| I can <b>round</b> each number and then add or subtract to estimate the sum or difference.  | If I <b>round</b> each number to a smaller place and then add or subtract I will get a more precise estimate.                                 |
|---|---|
| $\begin{array}{r} 7,321 \xrightarrow{\text{is about}} \\ + 2,927 \xrightarrow{\text{is about}} \end{array} \quad + \underline{\hspace{2cm}}$  | $\begin{array}{r} 7,321 \xrightarrow{\text{is about}} \\ + 2,927 \xrightarrow{\text{is about}} \end{array} \quad + \underline{\hspace{2cm}}$  |
| $\begin{array}{r} 15.511 \xrightarrow{\text{is about}} \\ - 8.633 \xrightarrow{\text{is about}} \end{array} \quad - \underline{\hspace{2cm}}$ | $\begin{array}{r} 15.511 \xrightarrow{\text{is about}} \\ - 8.633 \xrightarrow{\text{is about}} \end{array} \quad - \underline{\hspace{2cm}}$ |

## Practice to remember...

Estimate each sum or difference.

1. 
$$\begin{array}{r} 5,301 \\ + 4,860 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 0.69 \\ + 0.23 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 87.9 \\ - 52.87 \\ \hline \end{array}$$

4.  $\$93.36 - \$48.39$

5.  $6.35 + 8.95$

6.  $74,016 - 47,312$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

## Remembering

### Practice for fluency...

How is the number written in standard form?

- |  |   |
|--|---|
| <p>7. 415 thousand, 25</p> <p>a. 41,500,025</p> <p>b. 41,525</p> <p>c. 415,250</p> <p>d. 415,025</p> | <p>8. <math>100,000 + 900 + 20 + 3</math></p> <p>a. 1,923</p> <p>b. 100,923</p> <p>c. 100,000,923</p> <p>d. 109,023</p> |
|--|---|

Write an algebraic expression for each phrase.

- |  |   |
|--|---|
| <p>9. Subtract a number from 27</p> <p>_____</p> | <p>17. 4 increased by a number</p> <p>_____</p> |
|--|---|

- |  |   |
|--|---|
| <p>10. 19 plus a number</p> <p>_____</p> | <p>18. 25 less than a number</p> <p>_____</p> |
|--|---|

Answer each question. Use pictures, numbers, or words to show how you know.

19. Use the digits 0 – 9 to write a ten-digit number. Use each digit only once. What is the greatest possible number if the digit 3 is in the billions place and the digit 9 is in the millions place? Explain.

20. In one round of a diving competition, Suki got 9.3 points. Barbara got 9.6 points. Sharon got 8.5 points. Donna got 8.9 points. Which diver has the lowest score? Show how you know.

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

# Add Whole Numbers and Decimals

Practice to review...I can add whole numbers and decimals!

The strategies I learned in previous grades can help me add!  
 I can also use different strategies to check my thinking.

- **Addition Methods**
- Show All Totals
- Expanded Method
- New Groups Below
- New Groups Above

$7,492 + 3,558 = \underline{\hspace{2cm}}$

$3,951 + 1,984 = \underline{\hspace{2cm}}$

$6.92 + 3.4 = \underline{\hspace{2cm}}$

$56.2 + 15.35 = \underline{\hspace{2cm}}$

## Practice to remember...

Choose any strategy to find the sum. Show how you know.

1. 
$$\begin{array}{r} 345 \\ + 705 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 4.552 \\ + 2.3 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 653 \\ + 447 \\ \hline \end{array}$$

4.  $28.1 + 3.04$

\_\_\_\_\_

5.  $6 + 0.617$

\_\_\_\_\_

6.  $73,274 + 24,126$

\_\_\_\_\_

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

## Remembering

Practice for fluency...

Complete each equation.

7.  $3 \times \square = 27$

a. 7

b. 8

c. 9

d. 10

8.  $36 \div \square = 9$

a. 3

b. 4

c. 5

d. 6

Subtract.

9.  $423 - 350 = \underline{\hspace{2cm}}$

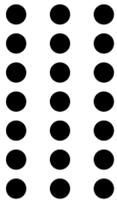
11.  $354 - 63 = \underline{\hspace{2cm}}$

10.  $\$82.43 - \$68.21 = \underline{\hspace{2cm}}$

12.  $7,449 - 3,965 = \underline{\hspace{2cm}}$

Answer each question. Use pictures, numbers, or words to show how you know.

13. Write a complete fact family for the array.



14. A seven-digit number has a 7 in the millions place and a 3 in the ten thousands place. All other places have ones. Write the number in words.

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

# Add and Subtract Whole Numbers and Decimals

Practice to review... I can add and subtract whole numbers and decimals!

The strategies I learned in previous grades can help me add and subtract!  
I can also use different strategies to check my thinking.

|   |                            |
|---|----------------------------|
| • | <b>Addition Methods</b>    |
|   | Show All Totals            |
|   | Expanded Method            |
|   | New Groups Below           |
| • | New Groups Above           |
| • | <b>Subtraction Methods</b> |
|   | Expanded Method            |
|   | Adding Up                  |
|   | Ungroup First              |
| • | Number Line                |

$7,492 + 3,558 = \underline{\hspace{2cm}}$

$3,951 - 1,984 = \underline{\hspace{2cm}}$

$8.675 + 2.136 = \underline{\hspace{2cm}}$

$56.2 - 15.35 = \underline{\hspace{2cm}}$

## Practice to remember...

Choose any strategy to find the sum or difference. Show how you know.

1. 
$$\begin{array}{r} 7,940 \\ - 4,365 \\ \hline \end{array}$$

2. 
$$\begin{array}{r} 79.1 \\ + 1.9 \\ \hline \end{array}$$

3. 
$$\begin{array}{r} 44,422 \\ - 21,505 \\ \hline \end{array}$$

4.  $2.58 + 3.936$

\_\_\_\_\_

5.  $4 - 2.97$

\_\_\_\_\_

6.  $81.61 - 61.8$

\_\_\_\_\_

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

## Remembering

### Practice for fluency...

- |   |  |
|---|--|
| <p>7. Which number sentence can help Joseph find the quotient <math>81 \div 9</math>?</p> <p>a. <math>9 \div 3 = 3</math></p> <p>b. <math>81 - 9 = 72</math></p> <p>c. <math>9 \times 9 = 81</math></p> <p>d. <math>81 \times 1 = 81</math></p> | <p>8. At an exhibit at the natural history museum, Jerome saw 40 spider legs. He knows that spiders have 8 legs. How many spiders did he see?</p> <p>a. 5</p> <p>b. 6</p> <p>c. 8</p> <p>d. 32</p> |
|---|--|

Use mental math to add.

9.  $49 + 37 =$  \_\_\_\_\_
10. \_\_\_\_\_  $= 62 + 13 + 87$
11. \_\_\_\_\_  $= 33 + 66$
12.  $44 + 197 =$  \_\_\_\_\_

Answer each question. Use pictures, numbers, or words to show how you know.

13. Round 99,603 to the nearest ten thousand. Then round it to the nearest thousand. What do you notice about your answers? Explain.
14. Mr. MacGregor's garden produced 113 tomatoes one week, 246 the next week, 287 the third week, and 366 the fourth week. About how many tomatoes did his garden produce over those four weeks? Explain your estimate.

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

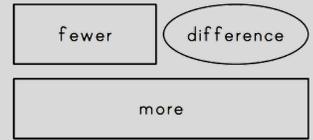
# Addition and Subtraction Equations

Practice to review... I can use mental math to solve addition and subtraction equations!

Today, Aki read 6 more pages of her book than she read yesterday.

Today she read 26 pages. How many pages did she read yesterday?

I can use comparison bars to show what I know from the math story!



I know that Aki read **more** pages today than yesterday.

She read \_\_\_\_\_ pages today.

I don't know how many pages Aki read yesterday, so I can use a variable!

Let **n** represent the number of pages Aki read yesterday.

She read 6 more pages today. That is the **difference**!

I can write an addition equation to find the value of **n**. I can write a subtraction equation to find the value of **n**.

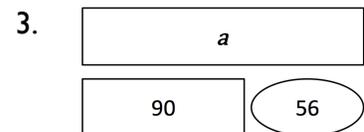
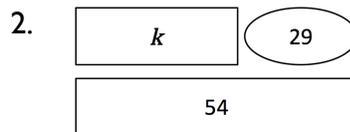
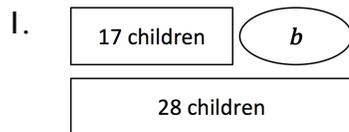
$$\begin{aligned} \underline{\quad} + \underline{\quad} &= \underline{\quad} \\ \underline{\quad} &= \underline{\quad} \end{aligned}$$

$$\begin{aligned} \underline{\quad} - \underline{\quad} &= \underline{\quad} \\ \underline{\quad} &= \underline{\quad} \end{aligned}$$

Aki read \_\_\_\_\_ pages yesterday.

## Practice to remember...

Write an equation shown by the model. Use mental math to solve your equation.



\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Use mental math or models to solve each equation.

4.  $g + 7 = 32$

5.  $84 - m = 52$

6.  $21 + v = 41$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

7.  $88 + j = 97$

8.  $s - 47 = 83$

9.  $a - 100 = 0$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Write an equation to solve the problem.

10. Shannon had a coupon for popcorn at the movies. The original price of the popcorn was \$3.10. Shannon only had to pay \$1.75. What was the value of the coupon?

\_\_\_\_\_

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

## Remembering

### Practice for fluency...

11. Find the difference.

$$0.8 - 0.25$$

- a. 0.65
- b. 0.6
- c. 0.55
- d. 0.5

12. Ms. Swenson drove 54.2 miles one day, 6.07 miles the second day, and 28.87 miles the third day. How many miles did she drive over those three days?

- a. 88.96
- b. 89.07
- c. 89.14
- d. 89.77

Compare. Write  $>$ ,  $<$ , or  $=$  for each .

13. 37,508  35,976

14. 481,976  1,006,119

Round to the place of the underlined digit.

15. 7,194 \_\_\_\_\_

16. 453,207 \_\_\_\_\_

Answer each question. Use pictures, numbers, or words to show how you know.

17. Write each amount. Then write the greater amount.

5 quarters, 3 dimes, 2 pennies    or    a one-dollar bill, 5 dimes, 6 pennies

18. According to an old story, all the tigers in the world came from Mt. In-Wang in Korea. Suppose there were 450 tigers on Mt. In-Wang one year. The next year there were more. Write an algebraic expression to show the number of tigers the second year. Explain what the variable represents.