

Name \_\_\_\_\_



# Homework & Practice 2-5

## Subtract Across Zeros

*Week 5 Homework*  
*Due Monday 9/16/19*

**Another Look!** Find  $700,402 - 297,354$ .

Estimate:  $700,000 - 300,000 = 400,000$

### Step 1

$$\begin{array}{r} 700,402 \\ - 297,354 \\ \hline \end{array}$$

You cannot subtract 4 ones from 2 ones, so you must regroup. Since there is a zero in the tens place, you must regroup 4 hundreds as 3 hundreds, 9 tens, and 10 ones.

$$\begin{array}{r} 700,402 \\ - 297,354 \\ \hline \end{array}$$

### Step 2

$$\begin{array}{r} 6 \cancel{0} 10 \quad 3 \cancel{0} 12 \\ 700,402 \\ - 297,354 \\ \hline \end{array}$$

Since there are zeros in the thousands and ten thousands places, you can regroup 700 thousands as 6 hundred thousand 9 ten thousands, and 10 thousands.

### Step 3

$$\begin{array}{r} 6 \cancel{0} 10 \quad 3 \cancel{0} 12 \\ 700,402 \\ - 297,354 \\ \hline 403,048 \end{array}$$

Now you can subtract.

### Step 4

$$\begin{array}{r} 11 \quad 11 \\ 297,354 \\ + 403,048 \\ \hline 700,402 \end{array}$$

You can check your answer by using addition.

You can use these steps to subtract across zeros.



**ODDS**  
For 1-12, subtract.

*Always* check subtraction with addition!

1.  $\begin{array}{r} 61,070 \\ - 4,981 \\ \hline \end{array}$   $\int +4,981$

2.  ~~$\begin{array}{r} 5,707 \\ - 2,958 \\ \hline \end{array}$~~

3.  $\begin{array}{r} 815,950 \\ - 423,147 \\ \hline \end{array}$

4.  ~~$\begin{array}{r} 90,800 \\ - 37,638 \\ \hline \end{array}$~~

5.  $\begin{array}{r} 102,604 \\ - 6,174 \\ \hline \end{array}$

6.  ~~$\begin{array}{r} 22,700 \\ - 20,487 \\ \hline \end{array}$~~

7.  $\begin{array}{r} 40,200 \\ - 29,526 \\ \hline \end{array}$

8.  ~~$\begin{array}{r} 600,470 \\ - 307,299 \\ \hline \end{array}$~~

9.  $8,106 - 2,999$

10.  ~~$214,507 - 83,569$~~

11.  $10,400 - 6,392$

12.  ~~$45,500 - 9,450$~~



13. **Number Sense** Este subtracts 9,405 from 11,038. Should Este's answer be greater or less than 2,000? Explain.

Este's answer should be \_\_\_\_\_ than 2,000 because \_\_\_\_\_

14. A park district holds a fundraiser over 4 weekends in which teams swim laps for donations. The park district's goal is 40,000 laps. Over three weekends the teams swam 8,597 laps, 11,065 laps, and 9,211 laps. How many laps do they need to swim the fourth weekend to reach their goal?

15. **MP.2 Reasoning** Fill in the missing numbers:

$$106,984 - 37,639 = \underline{\hspace{2cm}}, \text{ and}$$

$$69,345 + \underline{\hspace{2cm}} = 106,984.$$

Explain why you use addition to check subtraction.

You use addition to check subtraction because \_\_\_\_\_

16. **MP.3 Construct Arguments** Blaine subtracted 342,139 from 601,800. Is Blaine's answer correct? If not, explain why and write the correct answer.

$$\begin{array}{r} 601,800 \\ - 342,139 \\ \hline 359,661 \end{array}$$

17. **MP.5 Use Appropriate Tools** There are 332,054 people in a city. Of these, 168,278 are under the age of eighteen. Draw a bar diagram and find how many people are eighteen or older.

18. **Higher Order Thinking** To most closely estimate the difference below, would you round the numbers to the nearest ten thousand, the nearest thousand, or the nearest hundred? Explain.

$$\begin{array}{r} 62,980 \\ - 49,625 \\ \hline \end{array}$$

### Common Core Assessment

19. Sahira's company printed 37,652 books of the 70,000 that were ordered. How many more books does Sahira's company need to print? Write the missing numbers to complete the problem.

$$\begin{array}{r} 7 \square, 000 \\ - \square 7, 6 \square 2 \\ \hline \square \square, \square \square \square \end{array}$$



Name \_\_\_\_\_

Follow the Path



Shade a path from **START** to **FINISH**.  
Follow the sums that are correct. You can only move up, down, right, or left.

correct     incorrect

TOPIC  
2

Fluency Practice  
Activity

I can ...

add multi-digit whole numbers.

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Start				
$\begin{array}{r} 213 \\ + 675 \\ \hline 888 \end{array}$	$\begin{array}{r} 264 \\ + 632 \\ \hline 896 \end{array}$	$\begin{array}{r} 887 \\ + 112 \\ \hline 999 \end{array}$	$\begin{array}{r} 124 \\ + 345 \\ \hline 461 \end{array}$	$\begin{array}{r} 414 \\ + 111 \\ \hline 515 \end{array}$
$\begin{array}{r} 810 \\ + 172 \\ \hline 762 \end{array}$	$\begin{array}{r} 212 \\ + 486 \\ \hline 678 \end{array}$	$\begin{array}{r} 511 \\ + 228 \\ \hline 739 \end{array}$	$\begin{array}{r} 245 \\ + 322 \\ \hline 667 \end{array}$	$\begin{array}{r} 613 \\ + 282 \\ \hline 891 \end{array}$
$\begin{array}{r} 454 \\ + 545 \\ \hline 919 \end{array}$	$\begin{array}{r} 187 \\ + 412 \\ \hline 499 \end{array}$	$\begin{array}{r} 676 \\ + 322 \\ \hline 998 \end{array}$	$\begin{array}{r} 101 \\ + 116 \\ \hline 218 \end{array}$	$\begin{array}{r} 454 \\ + 432 \\ \hline 876 \end{array}$
$\begin{array}{r} 409 \\ + 390 \\ \hline 697 \end{array}$	$\begin{array}{r} 340 \\ + 340 \\ \hline 620 \end{array}$	$\begin{array}{r} 124 \\ + 65 \\ \hline 189 \end{array}$	$\begin{array}{r} 911 \\ + 64 \\ \hline 975 \end{array}$	$\begin{array}{r} 674 \\ + 115 \\ \hline 789 \end{array}$
$\begin{array}{r} 374 \\ + 613 \\ \hline 978 \end{array}$	$\begin{array}{r} 318 \\ + 121 \\ \hline 429 \end{array}$	$\begin{array}{r} 177 \\ + 311 \\ \hline 478 \end{array}$	$\begin{array}{r} 612 \\ + 317 \\ \hline 939 \end{array}$	$\begin{array}{r} 678 \\ + 321 \\ \hline 999 \end{array}$

Finish



*Use your notebook to help you!*

**Understand Vocabulary**

1. Circle the property of addition shown by  $126 + 0 = 126$ .

Associative                  Commutative                  Identity

2. Circle the property of addition shown by  $21 + 34 = 34 + 21$ .

Associative                  Commutative                  Identity

3. Circle the property of addition shown by  $(1 + 3) + 7 = 1 + (3 + 7)$ .

Associative                  Commutative                  Identity

4. Draw a line from each term to its example.

algorithm

$4 + 2 = 6 \rightarrow 6 - 2 = 4$

compensation

$130 - 31 \rightarrow 130 - 30 = 100$   
 $100 - 1 = 99$

counting on

Step 1: Add the ones.  
Step 2: Add the tens.

inverse operations

$x = 7$

variable

$6 + 20 + 300 = 326$

**Word List**

- algorithm
- Associative Property of Addition
- Commutative Property of Addition
- compensation
- counting on
- Identity Property of Addition
- inverse operations
- variable

**Use Vocabulary in Writing**

5. Rob found  $103 + 1,875 = x$  using mental math. Use at least 3 terms from the Word List to describe how Rob could find the sum.

*Rob could find the sum of  $103 + 1,875$  by*