

Name \_\_\_\_\_

**Rename Numbers****Essential Question** How can you rename a whole number?**Number and Operations in Base Ten—4.NBT.A.1** *Also 4.NBT.A.2***MATHEMATICAL PRACTICES**  
MP2, MP4, MP7**Investigate****Materials** ■ base-ten blocks

You can regroup numbers to rename them.



- A.**
- Use large cubes and flats to model 1,200. Draw a quick picture to record your model.

The model shows \_\_\_\_\_ large cube and \_\_\_\_\_ flats.

Another name for 1,200 is \_\_\_\_\_ thousand \_\_\_\_\_ hundreds.

- B.**
- Use only flats to model 1,200.
- 
- Draw a quick picture to record your model.

The model shows \_\_\_\_\_ flats.

Another name for 1,200 is \_\_\_\_\_ hundreds.

**Draw Conclusions**

1. How is the number of large cubes and flats in the first model related to the number of flats in the second model?

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2. Can you model 1,200 using only longs? Explain.

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3. You renamed 1,200 as hundreds. How can you rename 1,200 as tens? Explain.

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4. **THINK SMARTER** What would the models in Step A and Step B look like for 5,200? How can you rename 5,200 as hundreds?

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## Make Connections

You can also use a place-value chart to help rename numbers.

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones
5	0	0,	0	0	0

\_\_\_\_\_ 5 hundred thousands

\_\_\_\_\_ 50 ten thousands

\_\_\_\_\_ 500 thousands

\_\_\_\_\_ 5,000 hundreds

\_\_\_\_\_ 50,000 tens

\_\_\_\_\_ 500,000 ones

Write 32 hundreds on the place-value chart below. What is 32 hundreds written in standard form?

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones

\_\_\_\_\_ 32 hundreds

32 hundreds written in standard form is \_\_\_\_\_.

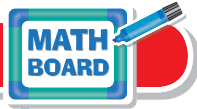


### MATHEMATICAL PRACTICES 7

**Look for Structure** How can a place-value chart help you rename numbers?

Name \_\_\_\_\_

# Share and Show



Rename the number. Draw a quick picture to help.

1. 150

\_\_\_\_\_ tens

2. 1,400

\_\_\_\_\_ hundreds

3. 2 thousands 3 hundreds

\_\_\_\_\_ hundreds

4. 13 hundreds

\_\_\_\_\_ thousand \_\_\_\_\_ hundreds

Rename the number. Use the place-value chart to help.

5. 18 thousands = \_\_\_\_\_

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones

6. 570,000 = 57 \_\_\_\_\_

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones

Rename the number.

7. 580 = \_\_\_\_\_ tens

8. 740,000 = \_\_\_\_\_ ten thousands

9. 8 hundreds 4 tens = 84 \_\_\_\_\_

10. 29 thousands = \_\_\_\_\_

# Unlock the Problem



11. **THINK SMARTER** A toy store is ordering 3,000 remote control cars. The store can order the cars in sets of 10. How many sets of 10 does the store need to order?

a. What information do you need to use?

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b. What do you need to find?

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c. How can renaming numbers help you solve this problem?

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d. Describe a strategy you can use to solve the problem.

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e. How many sets of 10 remote control cars does the store need to buy?

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12. **GO DEEPER** Ivan sold 53 boxes of oranges on Friday and 27 boxes on Saturday during a citrus sale. There were 10 oranges in each box. How many oranges did he sell in all?

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13. **MATHEMATICAL PRACTICE 2 Use Reasoning** A store sold a total of 15,000 boxes of buttons last month, and 12,000 boxes this month. If the store sold 270,000 buttons, how many buttons were in each box?

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14. **THINK SMARTER** For numbers 14a–14d, select True or False for each statement.

14a. 9 hundreds 3 tens can be renamed as 39 tens.  True  False

14b. 370,000 can be renamed as 37 ten thousands.  True  False

14c. 780 can be renamed as 78 tens.  True  False

14d. 42,000 can be renamed as 42 thousands.  True  False

Name \_\_\_\_\_

## Rename Numbers



**COMMON CORE STANDARD—4.NBT.A.1**  
Generalize place value understanding for multi-digit whole numbers.

**Rename the number. Use the place-value chart to help.**

1. 760 hundreds = 76,000

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones
	7	6,	0	0	0

2. 24 ten thousands = \_\_\_\_\_

THOUSANDS			ONES		
Hundreds	Tens	Ones	Hundreds	Tens	Ones

**Rename the number.**

3. 120,000 = \_\_\_\_\_  
ten thousands

4. 4 thousands 7 hundreds = 47 \_\_\_\_\_

## Problem Solving



5. For the fair, the organizers ordered 32 rolls of tickets. Each roll of tickets has 100 tickets. How many tickets were ordered in all?

\_\_\_\_\_

6. An apple orchard sells apples in bags of 10. The orchard sold a total of 2,430 apples one day. How many bags of apples was this?

\_\_\_\_\_

7. **WRITE** *Math* Explain how you can rename 5,400 as hundreds. Include a quick picture or a place-value chart in your explanation.

\_\_\_\_\_

## Lesson Check (4.NBT.A.1)

1. A dime has the same value as 10 pennies. Marley brought 290 pennies to the bank. How many dimes did Marley get?  
  
\_\_\_\_\_
2. A citrus grower ships grapefruit in boxes of 10. One season, the grower shipped 20,400 boxes of grapefruit. How many grapefruit were shipped?  
  
\_\_\_\_\_

## Spiral Review (Reviews 3.OA.B.5, 4.NBT.A.3, 4.NBT.B.4)

3. There were 2,605 people at the basketball game. A reporter rounded this number to the nearest hundred for a newspaper article. What number did the reporter use?  
  
\_\_\_\_\_
4. To get to Level 3 in a game, a player must score 14,175 points. Ann scores 14,205 points, Ben scores 14,089 points, and Chuck scores 10,463 points. Which score is greater than the Level 3 score?  
  
\_\_\_\_\_
5. Henry counted 350 lockers in his school. Hayley counted 403 lockers in her school. How does the 3 in 350 compare to the 3 in 403?  
  
\_\_\_\_\_  
\_\_\_\_\_
6. There are 4 muffins on each plate. There are 0 plates of lemon muffins. How many lemon muffins are there?  
  
\_\_\_\_\_  
\_\_\_\_\_