

Name Date

VOCABULARY

composite number prime number situation equation solution equation

► Vocabulary

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Choose the best term from the box.

1.	A shows the operation that can be used to solve a problem. (Lessons 4-2, 4-3)		
2.	A number greater than 1 that has 1 and itself as its only factor pair is a (Lesson 4-10)		
3.	A shows the structure of the information in a problem. (Lessons 4-2, 4-3)		
	Concepts and Skills		
4.	in how the equation for 4 is 2 more than 2 is different the equation for 4 is 2 times as many as 2. ons 4-4, 4-5, 4-6)		
5.	Explain how you could use rectangles and circles to show the following pattern: A B B A B B A B B. (Lesson 4-11)		
6.	Dori wrote this problem: Mrs. Ramos has 1,352 stamps. She buys some more stamps. Now she has 1,943 stamps. How many stamps did she buy? Explain why the situation equation $1,352 + s = 1,943$ represents Dori's problem. (Lesson 4-2)		

UNIT 4 TEST

Solve for \bigcap or n. (Lesson 4-1)

7.
$$(18 - 9) \cdot 3 = \boxed{ \cdot 3}$$

8.
$$(35 + 50) - (25 \div 5) = n$$

List all factor pairs for each number. (Lesson 4-10)

Write whether each number is prime or composite. (Lesson 4-10)

Tell whether each number is a multiple of 7. Write yes or no. (Lesson 4-10)

Use the rule to find the next three terms in the pattern. (Lesson 4-11)

Rule: multiply by 2

16. 55, 95, 135, 175, ...

Rule: add 40

Rule: multiply by 3

e: multiply by 3

Name Da

Describe the next term of each pattern. (Lesson 4-11)





▶ Problem Solving

For Problems 20–21, write an equation to solve the problem. (Lessons 4-2, 4-3)

- 20. The Appalachian Trail is a hiking trail that runs from Maine to Georgia and is approximately 2,160 miles long. Suppose the Andersons want to hike 9 miles per day along an 864-mile section of the trail from New York to Georgia. On how many days will the Andersons hike 9 miles?
- 21. The library had a large collection of books. Then the librarian ordered 2,200 more books. Now there are 13,327 books. How many books did the library have at the start?

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UNIT 4 TEST 161



For Problems 22–23, use the pictograph. Write an equation to solve each comparison problem. (Lessons 4-4, 4-5, 4-6)

22. How many fewer students voted for the zoo than voted for the aquarium?

Students'	Field Trip Choices
Zoo	$\odot \odot \odot$
Science Center	$\bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$
Aquarium	$\bigcirc \bigcirc \bigcirc$
Art Museum	○ ○
	€ = 4 votes

23. How many times as many students voted for the science center as voted for the art museum?

For Problems 24–25, use an equation to solve. (Lessons 4-7, 4-8, 4-9)

- 24. Rita and Cody sold refreshments at the football game. They sold 6 sandwiches, 8 bags of popcorn, and 20 bottles of water. The sandwiches cost \$5 each. The bags of popcorn cost \$2 each. The bottles of water cost \$1 each. How much money in all did Rita and Cody make?
- 25. Extended Response A bakery had 2 trays with 28 muffins on each tray. The bakery had 4 trays of cupcakes with 12 cupcakes on each tray. On Monday, the bakery sold 12 cupcakes.
 - a. How many muffins and cupcakes were left in all? Explain.
 - b. How can you determine if your answer is reasonable?

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