UNIT 4
Review/Test

Name _____ Date _____

VOCABULARY
composite number
prime number
situation equation
solution equation

▶ Vocabulary

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. Explain how the equation for *4 is 2 more than 2* is different from the equation for *4 is 2 times as many as 2*. (Lessons 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)

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Solve for ☐ or *n*. (Lesson 4-1)

7. $(18 - 9) \cdot 3 = \square \cdot 3$

   $\square =$ _____

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

   $n =$ _____

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

9. 47

   _____

10. 28

    _____

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

11. 98

    _____

12. 61

    _____

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

13. 36

    _____

14. 84

    _____

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

15. 6, 12, 24, 48, ...
    Rule: multiply by 2

    _____

16. 55, 95, 135, 175, ...
    Rule: add 40

    _____

17. 4, 12, 36, 108, ...
    Rule: multiply by 3

    _____

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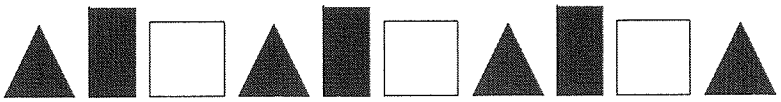
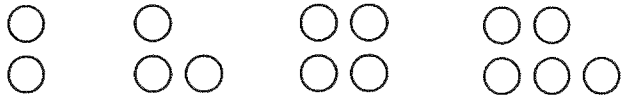
Describe the next term of each pattern. (Lesson 4-11)

18. 

_____

19. 

_____

▶ 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?

_____

_____