Model Multiplication and Division Equations

Use a bar model or a related equation to solve.

Check your solution.

16. $c \div 5 = 13$ **17.** $112 = 7 \times b$ **18.** $4p = 68$ **19.** $9 = d \div 21$

_____   _____   _____   _____

20. $105 = 3 \times a$ **21.** $9g = 99$ **22.** $m \div 10 = 16$ **23.** $22 = n \div 7$

_____   _____   _____   _____

24. $92 = f \times 4$ **25.** $h \div 9 = 14$ **26.** $13 = j \div 8$ **27.** $165 = 11r$

_____   _____   _____   _____

Problem Solving Real World

28. Darva arranges fabric squares to sew together to make a blanket for her baby sister. She divides the fabric squares equally among 12 rows. Each row has 8 squares. How many fabric squares does Darva have?

In your equation, let f represent the number of fabric squares Darva has.

_____

29. A school district purchased 90 new computers. The computers were divided equally among 6 classrooms. How many new computers are in each classroom?
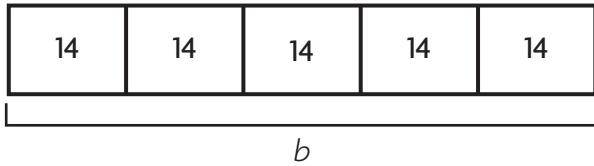
In your equation, let c represent the number of computers in each classroom.

_____

30. Write a real-world problem for the equation $4 \times y = 60$. Then solve.

_____

_____

_____

Lesson Check

Fill in the bubble completely to show your answer.

31. Which equation does the bar model represent?

14	14	14	14	14

b

- (A) $b \div 5 = 14$
- (B) $14b = 5$
- (C) $14 \div 5 = b$
- (D) $5b = 14$

32. Which equation does the bar model represent?

d	d	d	d

88

- (A) $d + 4 = 88$
- (B) $d \div 4 = 88$
- (C) $4d = 88$
- (D) $d = 4 \times 88$

33. Dori earned 95 points on her science test. She received 5 points for each question she answered correctly. How many questions did Dori answer correctly? The equation $5q = 95$ can be used to find q, the number of questions answered correctly.

- (A) 100
- (B) 90
- (C) 19
- (D) 11
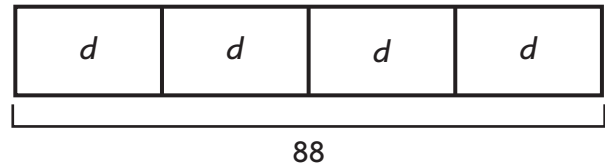
34. The Adams family drove 270 miles to reach their vacation destination. If they drove 45 miles each hour, how many hours did they drive? Which equation can you use to represent the problem?

- (A) $h = 270 \times 45$
- (B) $270 = 45h$
- (C) $45 \div h = 270$
- (D) $h + 45 = 270$

Spiral Review

35. At the movie complex, there are 16 theaters. In each theater, there are 9 rows of 18 seats. How many total seats are there?

- (A) 297
- (B) 2,592
- (C) 23,328
- (D) 178

36. Sergei is saving up for a gaming system that costs $376. If he saves $49 per month, how many months will it be before he can purchase the system?

- (A) 6 months
- (B) 7 months
- (C) 8 months
- (D) 9 months