

7.3 Exercises



Vocabulary and Concept Check

1. **NUMBER SENSE** What number divided by 12 equals 1? _____

2. **WRITING** What property of equality would you use to solve $\frac{x}{6} = 7$?
 Explain how you would use the property.

Copy and complete the first step in the solution.

3. $4x = 24$
 $\frac{4x}{\square} = \frac{24}{\square}$

4. $\frac{x}{3} = 11$
 $\frac{x}{3} \cdot \square = 11 \cdot \square$

5. $8 = n \div 3$
 $8 \cdot \square = (n \div 3) \cdot \square$

6. **OPEN-ENDED** Write an equation that can be solved using the Division Property of Equality.



Practice and Problem Solving

Solve the equation. Check your solution.

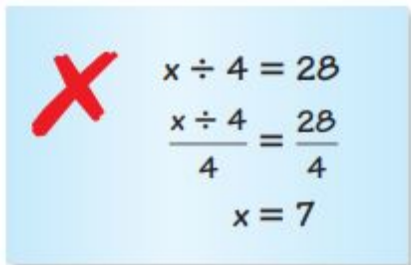
15. $7x = 105$ _____ Check: _____

16. $75 = 6 \cdot w$ _____ Check: _____

17. $13 = d \div 6$ _____ Check: _____

18. $9 = v \div 5$ _____ Check: _____

23. **ERROR ANALYSIS** Describe and correct the error in solving the equation.


$$\begin{array}{l} x \div 4 = 28 \\ \frac{x \div 4}{4} = \frac{28}{4} \\ x = 7 \end{array}$$

26. **THEATER** A theater has 1200 seats. Each row has 20 seats. Write and solve an equation to find the number of rows in the theater.

Equation: _____

Solution: _____

30. **TEST SCORE** On a test, you correctly answer six 5-point questions and eight 2-point questions. You earn 92% of the possible points on the test. How many points p is the test worth?

35. **Number Sense** The area of the picture is 100 square inches. The length is 4 times the width. Find the length and width of the picture.



Length: _____

Width: _____



Fair Game Review What you learned in previous grades & lessons

Write the word sentence as an equation. *(Section 7.1)*

36. The sum of a number b and 8 is 17. 37. A number t divided by 3 is 7.

38. **MULTIPLE CHOICE** What is the value of a^3 when $a = 4$? *(Section 3.1)*

- (A) 12 (B) 43 (C) 64 (D) 81

36. _____

37. _____

