2.7 Multiplication Equations

Pg. 81

3-20-18

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Division is the inverse of multiplication. To solve an equation that contains multiplication, use division to "undo" the multiplication.

$$4m = 32$$

$$4m = 32$$

$$4m = 8$$

$$4m \text{ means "} 4 \times m."$$

$$1 \times 100$$

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Solve the equation. Check your answer.

5p = 75p is multiplied by 5.

Divide both sides by 5 to undo the multiplication.

Check 5**p** = 75

 $5(15)\stackrel{?}{=} 75$ Substitute 15 for p in the equation. $75 \stackrel{?}{=} 75 \checkmark$ 15 is the solution.

Solve the equation. Check your answer.

16 = 8rr is multiplied by 8.

$$\frac{8r = 16}{8}$$

$$r = 2$$

$$\sqrt{8 \cdot 2} = 16$$

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Solve the equation. Check your answer.

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$$\frac{5p}{5} = \frac{75}{5}$$
 p is multiplied by 5.

Solve the equation. Check your answer.

$$8a = 72$$
 a is multiplied by 8.

$$\sqrt{8.9} = 72$$

 $8 \times 9 = 72$

Mar 15-8:55 AM Mar 15-8:55 AM Solve the equation. Check your answer.

$$\frac{18}{3} = \frac{3w}{3}$$

w is multiplied by 3.

$$W = 6$$

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Solve each equation. Check your answers.

$$A 3x = 12$$

$$\frac{3y = 12}{3}$$

 $x = 4$
 $\sqrt{3.4 = 12}$

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B 8 = 4w

$$\frac{4w = 8}{4}$$
 $w = 2$
 $\sqrt{2.4 = 8}$

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PROBLEM

The area of a rectangle is 56 square inches. Its length is 8 inches. What is its width?

- The area of the rectangle is 56 square inches.
- \bullet The length of the rectangle is 8 inches.

Draw a diagram to represent this information.

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Lesson Quiz

1.
$$10y = 300$$
 $10y = 300$

2.
$$2y = 82$$

5. The area of a board game is 468 square inches. Its width is 18 inches. What is the length?

$$2y = 62 (4) = 18 = 13x
4 = 41 \times 1 = 5$$

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