Mathelpers Solve Multiplication and Division Equations

Multiplication and division are inverse operations

Use division to solve a multiplication equation. Use multiplication to solve a division equation.

Both sides of an equation can be multiplied by the same number to make the coefficient of the variable 1

Solve $\frac{n}{3} = 7$ multiply both sides by 3. $\frac{3 \times n = 3 \times 7}{3n = 21}$

Always check your solution.

 $\frac{n}{3} = 7$ $\frac{21}{7} = 7$ Replace y with 21. 3 = 7p The solution checks.

Both sides of an equation can be divided by the same number to make the coefficient of the variable 1

Solve 6y = 24 Divide both sides by 6.

 $\frac{6y}{6} = \frac{24}{6}$ y = 4

Always check your solution. 6y = 24

6y = 24 $6 \times 4 = 24$ Replace y with 4 24 = 24 P The solution checks.

Mathelpers.com

Grade 6

Examples:

A- Solve each equation. Then check.		
1) 6p = 24	2) 12a = 36	3) t/5 = 7
<u>6/6p = 24/6</u>	<u>12/12a = 36/12</u>	<u>t x 5/5 = 7 x 5</u>
<u>p = 4</u>	<u>a = 3</u>	<u>t = 35</u>
6 x 4 = 24	12 x 3 = 36	35/5 = 7
<u>24 = 24</u>	<u>36 = 36</u>	<u>7 = 7</u>

Mathelpers.com

Grade 6