

Solving Multiplication and Division Equations

Warmup

1. $s + 7 = 16$

2. $b - 9 = 12$

3. $74 + p = 98$

Solving Multiplication and Division Equations

- I. Solving Multiplication Equations
- II. Solving Division Equations
- III. Multiplication & Division Equations with Decimals
- IV. Word Problems with Equations

Homeschool



Honor Roll

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Pre-Algebra and Geometry I

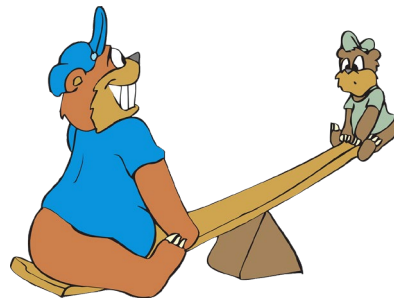
Wendy Harper

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I. Solving Multiplication Equations

$$\begin{array}{ccc} 4s & & 8 \\ \hline & \triangle & \\ & = & \end{array}$$

$$\begin{array}{ccc} s & & \\ \hline & \triangle & \\ & = & \end{array}$$



$$7p = 77$$

To Solve Multiplication Equations:

1. Write the equation
2. To isolate the variable, divide the same amount on both sides.
3. Simplify.
4. Check your answer.

$$54 = 6x$$

5.

$$8c = 24 \quad \textit{Check}$$

6.

$$16y = 64 \quad \textit{Check}$$

II. Solving Division Equations

$$\frac{t}{4} = 2$$

$$t =$$

$$\frac{y}{3} = 10$$

To Solve Division Equations:

1. Write the equation
2. To isolate the variable, multiply the same amount on both sides.
3. Simplify.
4. Check your answer.



7.

$$\frac{m}{9} = 9$$

Check

8.

$$\frac{w}{3} = 6$$

Check

III. Solving Multiplication and Division Equations with Decimals

To solve multiplication and division equations with decimals follow the same rules as solving multiplication and division equations.

$$1.54x = 4.62$$

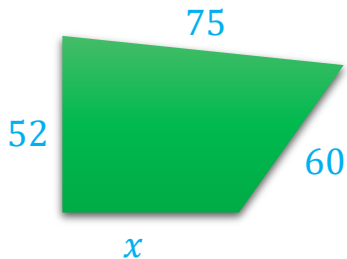
Check

9. $9.1x = 20.475$ *Check*

10. $\frac{z}{9.8} = 1.2$ *Check*

IV. Word Problems with Equations

The perimeter of a polygon is the distance around the figure. Calculate the length of the missing side of the quadrilateral (4 – sided polygon) when the perimeter is 228 cm.



Sam is twice the age of Tim. If Tim is 9 years old, how old is Sam?

John is twice the age of Tom. If John is 9 years old, how old is Tom?

11. The area of a rectangle is calculated by multiplying the length times the width. The area of a rectangle is 40 and the width is 10. Find the length. (Hint: $A = lw$)

12. Bob divided his money into two equal amounts. How much money does he have if each pile has \$194,567.

