

Warmup

1. $s + 7 = 16$

2. $b - 9 = 12$

3. $74 + p = 98$

I. Solving Multiplication Equations

$$\begin{array}{c} 4s \qquad 8 \\ \hline \triangle \\ = \end{array}$$

$$\begin{array}{c} s \\ \hline \triangle \\ = \end{array}$$

The bears are not equal in weight.



$$7p = 77$$

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.

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

6.

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

II. Solving Division Equations

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

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

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

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.

$$\frac{m}{9} = 9 \quad \text{Check}$$

8.

$$\frac{w}{3} = 6 \quad \text{Check}$$

III. Solving Multiplication and Division Equations with Decimals

$$1.54x = 4.62 \quad \text{Check}$$

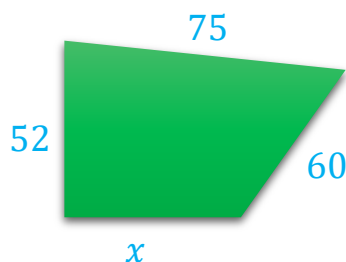
To solve multiplication and division equations with decimals follow the same rules as solving multiplication and division equations.

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.

V. Practice

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