

Solving Addition and Subtraction Equations

Warmup

1. s

$$\begin{array}{r} +5.01 \\ \hline 8.26 \end{array}$$

2. t

$$\begin{array}{r} -4.12 \\ \hline 5.25 \end{array}$$

3. 7.01

$$\begin{array}{r} + \quad p \\ \hline 9.51 \end{array}$$

Solving Addition and Subtraction Equations

- I. Solving Addition Equations
- II. Solving Subtraction Equations
- III. Solving Addition and Subtraction Equations with Decimals
- IV. Word Problems with Addition and Subtraction Equations

Homeschool*Honor Roll**Learn ~ Persevere ~ Succeed*

Pre-Algebra and Geometry I

Wendy Harper

www.HsHonorRoll.com

I. Solving Addition Equations

Equation: A mathematical sentence expressing that two quantities are of equal value.

The bears are not equal in weight.



$$\begin{array}{c} s + 5 \qquad 8 \\ \hline \triangle \\ = \end{array}$$

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

$$7 + p = 9$$

To Solve Addition Equations:

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

5.

$$c + 8 = 15 \quad \textit{Check}$$

6.

$$16 + y = 21 \quad \textit{Check}$$

II. Solving Subtraction Equations

$$\begin{array}{ccc} t - 3 & & 2 \\ \hline & \triangle & \\ & = & \end{array}$$

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

$$t - 10 = 10$$

To Solve Subtraction Equations:

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



7.

$$z - 7 = 9 \quad \textit{Check}$$

8.

$$m - 12 = 8 \quad \textit{Check}$$

III. Solving Addition and Subtraction equations with decimals

$$a + 18.54 = 36.45 \quad \textit{Check}$$

To solve addition and subtraction equation with decimals follow the same rules as solving addition and subtraction equations.

9.

$$6.3 + c = 23.55 \quad \textit{Check}$$

10.

$$t - 15.75 = 9.28 \quad \textit{Check}$$

9.

$$6.3 + c = 23.55 \quad \textit{Check}$$

10.

$$t - 15.75 = 9.28 \quad \textit{Check}$$

IV. Word Problems with Addition and Subtraction Equations

Anna is 5 inches taller than Barbara. Anna is 54 inches. How tall is Barbara?

Sam is 7 years younger than Tim. If Sam is 9 years old, how old is Tim?

11. Rebecca is 9 inches shorter than Ashley. How tall is Ashley if Rebecca is 43 inches?

12. John was given a raise of 2 dollars per hour. How much was John earning before the raise if he is now earning 20 dollars per hour?