

Name: _____

Date: _____

AIM: How can we solve algebraic equations?

Compare and contrast the following:

$$x + 4$$

$$x + 4 = 12$$

Solution: _____

Goal of Solving an Equation: _____

Addition/Subtraction/Multiplication/Division Properties of Equality: _____

One-Step Equation	Justification	Check	Steps on How to Check an Equation:			
$x + 3 = 10$				Steps on How to Check an Equation:		
$x - 3 = 6$					Steps on How to Check an Equation:	
$-5x = 15$						Steps on How to Check an Equation:
$\frac{x}{3} = -10$						

Solve each equation.

1. $x - 10 = 12$

2. $m + 1.5 = 5.8$

3. $8x = 2.4$

4. $\frac{n}{-4} = 2$

Solve each equation. Check the equations the ask you to check.

1. $-6 = t - 9$

Check

2. $a + 11 = -14$

3. $12 = y + 15\frac{2}{3}$

4. $0.2a = 48$

Check

5. $-7z = 49$

6. $\frac{a}{9} = -30$

Check

7. $\frac{x}{21} = -0.04$

8. Lisa is cooking muffins. The recipe calls for 7 cups of sugar. She has already put in 2 cups. How many more cups does she need to put in? Write an equation to solve.

9. Last Friday, Trevor had \$29. Over the weekend, he received some money for cleaning the attic. He now has \$41. How much money did he receive? Write an equation to solve.



We solve equations using _____
operations.

The _____ of equality allow us
to _____ our variable by
_____ both sides of the equation.