Solving One Step Equations Notes

EQUATION:

An equation is two _____ set _____ to each other

INVERSE OPERATIONS:

The _____ operation that will _____ the other operation

Operation:	Inverse:
Addition (+)	_____
Subtraction (−)	_____
Multiplication (·)	_____
Division (÷)	_____

GOAL OF SOLVING EQUATIONS:

Get the _____ by itself on one side of the _____ _____

Steps:	Example: $x + 2 = 7$
Identify the variable you are solving for	Solve for: _____ Need to move the: _____
Use the **inverse operation** to **isolate** the variable	Inverse operation: _____ $x + 2 = 7$ ___ ___ $x =$ ___
Check you solution by replacing the variable with your answer	$x + 2 = 7$ ___ $+ 2 = 7$ ___ $= 7$

Solving One Step Equations Notes

EXAMPLE: $a + 8 = 20$

Solve for: _____

Move the: _____

Inverse Operation: _____

$$a + 8 = 20$$

EXAMPLE: $m - 9 = 15$

Solve for: _____

Move the: _____

Inverse Operation: _____

$$m - 9 = 15$$

EXAMPLE: $3m = 12$

Solve for: _____

Move the: _____

Inverse Operation: _____

$$3m = 12$$

EXAMPLE: $\frac{x}{4} = 16$

Solve for: _____

Move the: _____

Inverse Operation: _____

$$\frac{x}{4} = 16$$

FRACTION COEFFICIENT:

If the _____ is a fraction, multiply by the reciprocal to _____ the variable

$$\frac{3}{2}x = 9$$

$$x = \_\_\_\_$$