

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: _____ $x + 2 = 7$ _____ $x = \underline{\hspace{2cm}}$
Check you solution by replacing the variable with your answer	$x + 2 = 7$ $\underline{\hspace{2cm}} + 2 = 7$ $\underline{\hspace{2cm}} = 7$

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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

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

$$x = \underline{\hspace{2cm}}$$