

SOLVING EQUATIONS NOTE SHEET

When solving equations, you will need to use _____, or opposite operations to help you _____ the _____.

INVERSES

The inverse of addition is _____

The inverse of subtraction is _____

The inverse of multiplication is _____

The inverse of division is _____

$$-3x + 6 = 21$$

ONE-STEP EQUATIONS

$$x - 7 = 16$$

$$x + 3 = 10$$

$$4x = 20$$

$$\frac{x}{4} = 11$$

TWO-STEP EQUATIONS

To solve a Two-Step equation:

1. Draw a line through the equal sign.
2. Undo the addition/subtraction. (to remove constant term)
3. Undo multiplication/division (to remove coefficient)

$$4x - 8 = 16$$

$$\frac{y}{12} - 5 = 11$$

$$-61 = 7y - 26$$

$$4 - 3n = 43$$

$$\frac{x}{4} + 10 = 1$$

$$23 - x = 13$$

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<p style="text-align: center; font-size: 2em; font-weight: bold;">COMBINING LIKE TERMS</p>	<p>Sometimes you have more complex equations to solve, and you may need to combine like terms before solving. Combining Like Terms means that you simplify an expression that has the same term. Don't forget to keep the sign in front of the number/term.</p>	
	$3x + 2x + 6 = 41$	$2x - 8 + 3 = 17$
	$4x - 8 + 3x + 3 = 16$	$9x - 7 + x - 3 = 180$
	<p style="text-align: center;">_____ angles are two angles whose sum is 180 degrees.</p>	
<p style="text-align: center; font-size: 1.5em; font-weight: bold;">APPLICATION TO SUPPLEMENTARY ANGLES</p> 		
		