Reteaching Page 2.4 Solving Addition Equations

Equations are mathematical sentences that have an equals sign. The equals sign shows you that the quantities on either side are equal in value.

$$4 + 3 = 7$$
 $6 - 2 = 7 - 3$ $4 * 8 = 35 - 3$

Equations can be altered without changing the equality, as long as you make the **same alteration to both sides.** We will alter the equations above by subtracting 2 from both sides of the equals sign.

When an equation contains a **variable**, you make alterations with the purpose of getting the variable to be alone. The alterations use **inverse operations** to turn values within the equation to 0. The opposite of Addition is Subtraction so Addition and Subtraction are Inverse Operations.

a +7	=	27	The inverse of +7 is -7 so let's -7 from both sides.
a + 7 - 7	=	27 - 7	
a + 0	=	20	a = 20
19 + a	=	35	The inverse of + 19 is - 19 so let's - 19 from both sides.
19 - 19 + a	=	35 - 19	
0 + a	=	16	a = 16

Use inverse operations to solve for n in the following equations.

1) n + 7 = 12	
2) n + 38 = 52	
3) 41 + <i>n</i> = 66	
4) 18 + n = 24	

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