

# MURRIETA VALLEY HS DISTANCE LEARNING

## Mr.Smith-RSP Teacher/ Basic Math 1B

*April 20-24, 2020*

CONTACT INFO: [asmith@murrieta.k12.ca.us](mailto:asmith@murrieta.k12.ca.us)

Office Hours- Contact me anytime

<b>Imagine Math- Username- 9 digit code Password- IM+9 digit code Site code- 0600029</b>	Imagine Math
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<b>Monday, April 13</b>	<b>Review Solve Equations with Variables on Both Sides Notes</b> See Page#2
<b>Tuesday, April 14</b>	<b>Do the <b>Try it</b> problems on the bottom of the Notes a&amp;b</b> <b>Send me your answers to make sure your good for the Practice</b> <b>Thursday.</b>
<b>Wednesday, April 15</b>	<b>Login to Imagine Math. Complete the lesson.</b> <b>Solving Equations with Variables on Both Sides</b>
<b>Thursday, April 16</b>	Complete practice problems #16-23 See Page #3
<b>Friday, April 17</b>	<b>Make sure all tasks for week are complete and send to</b> <b><a href="mailto:asmith@murrieta.k12.ca.us">asmith@murrieta.k12.ca.us</a></b>

**NOTES :** Feel free to asks me questions anytime regarding issues concerns you may have.  
Most importantly, take care of yourself, and families.

## EXAMPLE 1 Solving Equations With a Variable on Both Sides

A. What is the value of  $x$  in the equation shown?

$$\underbrace{3x - 10 + 4x}_{7x - 10} = \underbrace{-2(x - 4)}_{-2x + 8} + 9$$

Combine like terms.

$$7x - 10 = -2x + 8 + 9$$

Distribute the  $-2$ .

$$7x + 2x = 8 + 9 + 10$$

Collect like terms on the same side of the equation.

$$9x = 27$$

$$\frac{9x}{9} = \frac{27}{9}$$

$$x = 3$$

B. What is the value of  $n$  in the equation shown?

$$\frac{1}{2}(n - 4) - 7 = -2n + 6$$

$$\frac{1}{2}(n - 4) = -2n + 13$$

$$n - 4 = -4n + 26$$


Multiply each side by 2 to eliminate the fraction.

$$n + 4n = 26 + 4$$

$$5n = 30$$

$$n = 6$$

Collect like terms on the same side of the equation.

 **Try It!** 1. Solve each equation.

a.  $100(z - 0.2) = -10(5z + 0.8)$       b.  $\frac{5}{8}(16d + 24) = 6(d - 1) + 1$

## PRACTICE

Solve each equation. SEE EXAMPLES 1-3

16.  $5x - 4 = 4x$

17.  $7x = 8x + 12$

18.  $27 - 3x = 3x + 27$

19.  $34 - 2x = 7x$

20.  $5r - 7 = 2r + 14$

21.  $-x = 7x - 56$

22.  $5(n - 7) = 2(n + 14)$

23.  $6w - 33 = 3(4w - 5)$