

# Today's Plan:

**Learning Target (standard):** I will solve multi-step equations.

**Students will:** Complete practice problems over previous concepts at the boards, put up homework problems on the board and make necessary corrections to their own work, take notes over new material and complete practice problems over new concepts.

**Teacher will:** Provide practice problems over previous concepts, check homework problems for accuracy and provide students feedback, describe and provide examples of new concepts and assign students assessment problems over new concepts.

**Assessment:** Board work, homework check, stamp activity and homework assignment

**Differentiation:** Students will work at the board, go over and correct homework at their seats, actively engage in lecture over new concepts, practice new concepts with the aid of other students and the teacher and complete homework assignment.

NAME \_\_\_\_\_

18

## BELL RINGER

1.) Solve  $2(2 - x) = 3x + 4$ .

$$4 - 2x = 3x + 4$$

+2x      +2x

$$4 = 5x + 4$$

-4      -4

$$0 = 5x$$

/5      /5

2.) Evaluate  $7.9 + (-3.7)$ .

$$7.9 - 3.7$$

$$\textcircled{4.2}$$

$$0 = x$$

3.) What is the probability of drawing a red card from a standard deck of cards?

$$\frac{\text{what you want}}{\text{what you have}} = \frac{26}{52} = \frac{1}{2}$$

Solve.

$$8) -3n - 3 + 8 + 3n = 6(1 - 3n) - 5(1 - 4n)$$

$$\underline{-3n} - \underline{3} + \underline{8} + \underline{3n} = \underline{6} - \underline{18n} - \underline{5} + \underline{20n}$$

$$\underline{5} = \underline{1} + \underline{2n}$$

$$\underline{4} = \underline{2n}$$

$$\underline{2} = \underline{n}$$

Ty is 3 years younger than Bea. Represent this relationship in three ways - create a table, write an equation, and draw a graph.

Independent - Bea's Age

Dependent - Ty's Age

Equation:

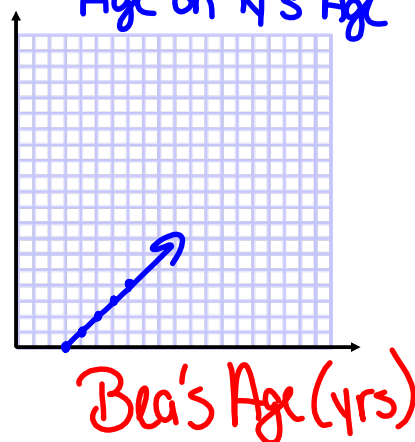
$$\text{Ty's Age} = \text{Bea's Age} - 3$$

$$y = x - 3$$

The Effect of Bea's Age on Ty's Age

X	Y
3	0
4	1
5	2
6	3
7	4

Ty's Age (yrs)



Solve.

$$18 - n = 7 - 4(-4n - 7)$$

$$18 - n = 7 + 16n + 28$$

$$18 - n = 35 + 16n$$

$+n \qquad \qquad +n$

$$18 = 35 + 17n$$

$-35 \quad -35$

$$-17 = 17n$$

$$n = -1$$

Solve.

$$-9 - 5b = 7(b - 3)$$

$$-9 - 5b = 7b - 21$$

$+5b \quad +5b$

$$-9 = 12b - 21$$

$+21 \qquad \qquad +21$

$$12 = 12b$$

$$b = 1$$

Solve.

$$7 - 2v = 4(v - 2) - 3v$$

$$7 - 2v = \underline{4v} - 8 - \underline{3v}$$

$$7 - 2v = v - 8$$

$-v \quad -v$

$$7 - 3v = -8$$

$-7 \quad -7$

$$-3v = -15$$

$$v = 5$$

Solve.

$$6r - 2(2 - r) = 4(2r - 1)$$

$$6r - 4 + 2r = 8r - 4$$

$$8r - 4 = 8r - 4$$

$$-4 = -4$$

identity

Solve.

$$-8r + 40 = 2r - 5(6r - 4)$$

$$-8r + 40 = \underline{2r} - \underline{30r} + 20$$

$$\begin{array}{r} -8r + 40 = -28r + 20 \\ +28r \qquad +28r \end{array}$$

$$\begin{array}{r} 20r + 40 = 20 \\ -40 \quad -40 \end{array}$$

$$20r = -20$$

$$r = -1$$

Solve.

$$-7(4 + x) = -6 + 4x$$

$$\begin{array}{r} -28 - 7x = -6 + 4x \\ -4x \qquad -4x \end{array}$$

$$\begin{array}{r} -28 - 11x = -6 \\ +28 \qquad +28 \end{array}$$

$$-11x = 22$$

$$x = -2$$

Solve.

$$-18 - 2n = -3(7 + n)$$

$$\begin{array}{r} -18 - 2n = -21 - 3n \\ +3n \qquad +3n \end{array}$$

$$\begin{array}{r} -18 + n = -21 \\ +18 \qquad +18 \end{array}$$

$$n = -3$$

Solve.

$$-2(x + 4) - 4 = -2(x - 3)$$

$$-2x - 8 - 4 = -2x + 6$$

$$-2x - 12 = -2x + 6$$

$$-12 = 6$$

no solution

# Assignment:

Multi-Step Equations 2 #1-12

\*show ALL work\*

\*write the problem\*