

HW: IXL Skill Practice on 2-step equations
(link on Google Classroom, score 75 or
above)

Warm up:

Evaluate the expressions if $x = -3$

1) $3x + 5$ $3(-3) + 5 = -9 + 5 = -4$

2) $9 - 2x = 9 - 2(-3) = 9 - (-6) = 15$

3) $x - 12 = -3 - 12 = -15$

$$x + 7 = 2$$

$$\begin{array}{r} -7 \\ -7 \end{array}$$

$$x = -5$$

$$x - 9 = 4$$

$$\begin{array}{r} +9 \\ +9 \end{array}$$

$$x = 13$$

$$\frac{-3x}{-3} = \frac{12}{-3}$$

$$x = -4$$

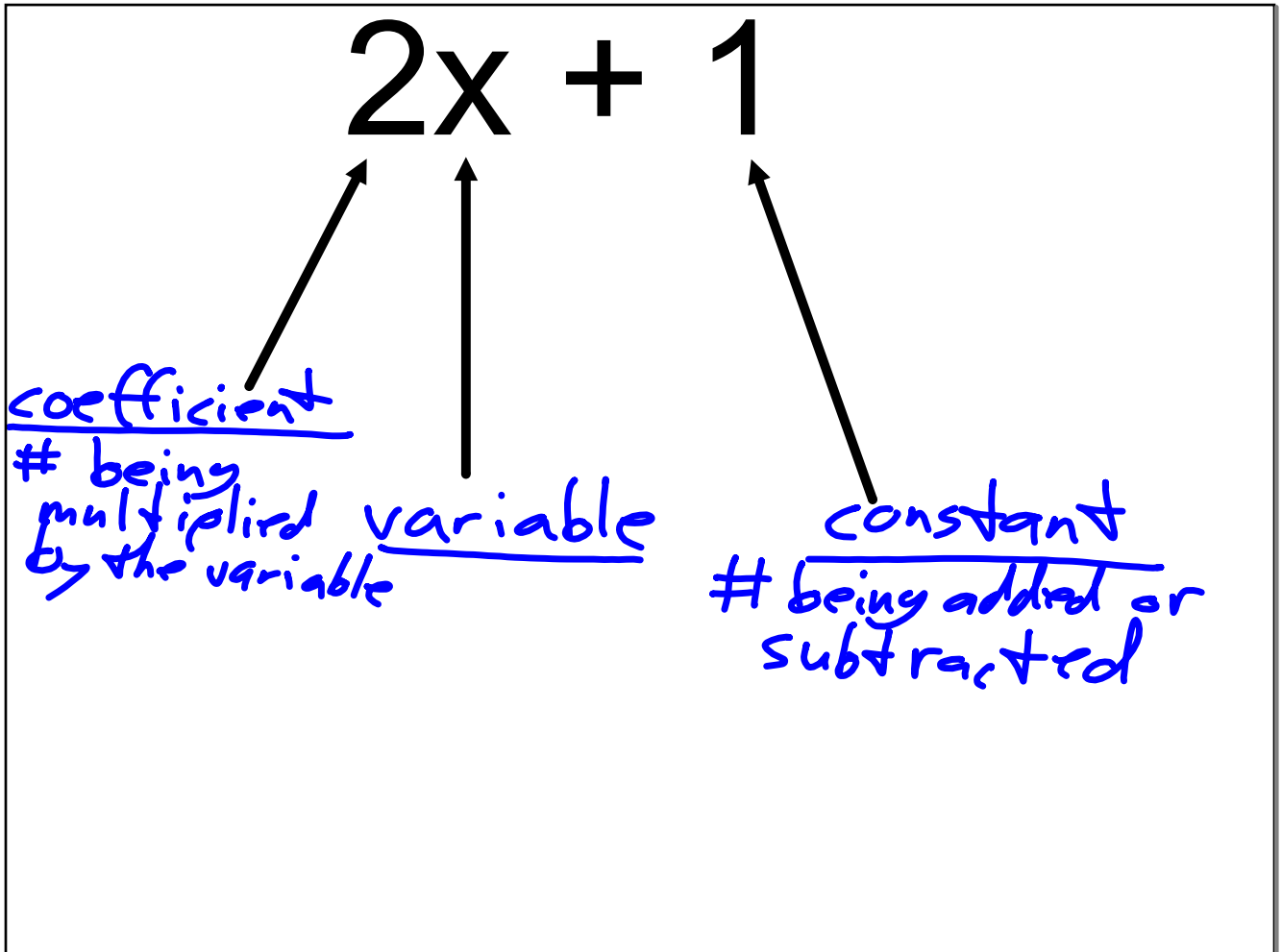
$$2\left(\frac{x}{2}\right) = (5)2$$

$$x = 10$$

Inverse Operations

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$$2x + 1 = 7$$

$$\begin{array}{r} -1 \quad -1 \\ \hline \end{array}$$

$$\frac{2x}{2} = \frac{6}{2}$$

$$x = 3$$

$$2x + 1 = 7$$

$$\frac{\quad}{2} \quad \frac{\quad}{2}$$

$$x + \frac{1}{2} = \frac{7}{2}$$

$$\frac{\quad}{2} \quad \frac{\quad}{2}$$

$$x = \frac{6}{2} = 3$$

$$\begin{array}{l} c = 6 \\ \times 2 \quad \times 2 \end{array}$$

$$\begin{array}{r} c + 5 = 11 \\ 2 \quad - 5 \quad - 5 \end{array}$$

$$\cancel{2} \left(\frac{c}{\cancel{2}} \right) = (6) \cancel{2}$$

$$c = 12$$

$$\begin{array}{r} 3 + 2x = 11 \\ -3 \quad -3 \\ \hline 2x = 8 \\ \frac{2x}{2} = \frac{8}{2} \\ \hline x = 4 \end{array}$$

$$\begin{array}{r} -5 + 3x = 1 \\ \downarrow 5 \qquad \qquad \downarrow 5 \\ \hline 3x = 6 \\ \frac{3x}{3} = \frac{6}{3} \\ \hline x = 2 \end{array}$$

$$\begin{array}{r} -x + 3 = 12 \\ \underline{-3 \quad -3} \\ -x = 9 \\ \underline{-1 \quad -1} \\ \underline{-x = -9} \end{array}$$

$$\begin{array}{r} 5 - 2x = -7 \\ -5 \quad -5 \\ \hline -2x = -12 \\ -2 \quad -2 \\ \hline X = 6 \end{array}$$

$$1) a - 9 = 45$$

$$5) 17 + 2.6n = 30$$

$$2) \frac{x}{5} = -12$$

$$6) -20 = 7 + \frac{x}{2}$$

$$3) -2p = 1$$

$$7) -x - 4 = 13$$

$$4) -6b + 10 = -14$$

$$8) 8 - x = -2$$

$$1) a - 9 = 45$$

$$+9 \quad +9$$

$$\underline{\underline{a = 54}}$$

$$\begin{array}{r} a = 54 \\ \hline 1 \quad 1 \\ \hline a = 54 \end{array}$$

$$2) \frac{x}{5} = (-12) \quad 5$$

$$x = -60$$

$$3) -2p = 1$$

$$\frac{-2}{-2} = \frac{1}{-2}$$

$$p = -\frac{1}{2}$$

$$4) -6b + 10 = -14$$

$$-10 - 10$$

$$\hline -6b = -24$$

$$-6 \quad -6$$

$$\hline b = 4$$

$$-14 - 10$$

$$-14 + (-10)$$

$$5) 17 + 2.6n = 30$$

$$\begin{array}{r} -17 \quad -17 \\ \hline \end{array}$$

$$2.6n = 13$$

$$\begin{array}{r} \underline{2.6} \quad \underline{2.6} \\ n = 5 \end{array}$$

$$6) -20 = 7 + \frac{x}{2}$$

$$7) -x - 4 = 13$$

$$8) 8 - x = -2$$