

Starter

Solve each of the following equations

$$1) 8x = 4x + 2(x + 6)$$

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

$$2) 2x + 6 = 2x + 6$$

$$4) 2x + 1 = 4x - 9$$

Solve the following, write your answer in scientific notation

$$5) (9 \times 10^7) - (2 \times 10^5)$$

Answers

Nov 7-1:42 PM

Literal Equations WKS 1

Completion Points

5 points: 20 problems

4 points: 15-19 problems

3 points: 11-14 problems

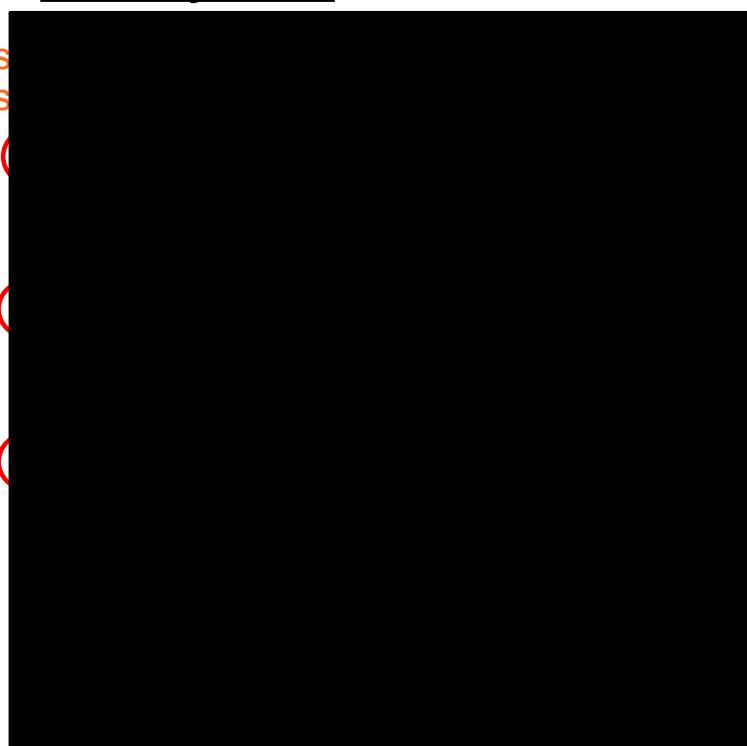
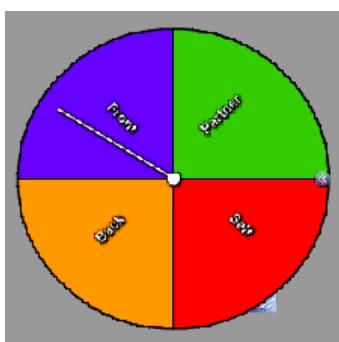
2 points: 5-10 problems

1 point: 2-4 problems

0 points: 0-1 problems

Score = Completion + Accuracy

Accuracy Points



Sep 17-9:03 AM

B3 Math 8 Unit 3

Day 17: Literal Equations

Objectives:

I can solve literal equations for a named variable.

$$3k - 2 = 16$$

$$+2 \quad +2$$

$$3k = 18$$

$$\div 3 \quad \div 3$$

$$k=6$$

Sep 28-2:09 PM

$$y = 2x + 10 \quad (x)$$

$$\begin{array}{r} -10 \quad -10 \\ \hline y - 10 = 2x \end{array}$$

subtraction prop (=)

$$\begin{array}{r} \cancel{y-10} \quad \cancel{2x} \\ \hline 2 \quad 2 \end{array}$$

division prop (=)

$$\begin{array}{r} y - 10 = x \\ \hline 2 \end{array}$$

$$\frac{1}{2}x + y = 2 \quad (x)$$

$$\begin{array}{r} \cancel{\frac{1}{2}x} - y \quad -y \\ \hline \end{array}$$

subtraction prop (-)

$$\begin{array}{r} \frac{1}{2}x = 2 - y \\ \hline \frac{1}{2} \quad \frac{1}{2} \end{array}$$

div. prop (-)

$$\begin{array}{r} x = 2(2 - y) \\ \hline x = 4 - 2y \end{array}$$

$$-9x - yb = t \quad (b)$$

$$\begin{array}{r} +9x \quad +9x \\ \hline -yb = t + 9x \end{array}$$

Addition prop (=)

$$\begin{array}{r} \cancel{-y} \quad \cancel{-y} \\ \hline b = t + 9x \end{array}$$

division prop (=)

$$\begin{array}{r} b = t + 9x \\ \hline -y \end{array}$$

$$x(y + 3) = z \quad (y)$$

$$\begin{array}{r} xy + 3x = z \\ \cancel{-3x} \quad \cancel{-3x} \end{array}$$

distributive prop (-)

$$\begin{array}{r} xy = z - 3x \\ \hline x \quad x \end{array}$$

subtraction prop (-)

$$\begin{array}{r} y = z - 3x \\ \hline x \end{array}$$

division prop (-)

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$$x + 3y = 10 \quad (y)$$

$$\begin{array}{r} -x \\ \hline 3y = 10 - x \end{array} \quad \begin{array}{l} \text{Subtract} \\ \text{Prop. (=)} \end{array}$$

$$\begin{array}{r} 3 \\ \hline 3 \end{array} \quad \begin{array}{l} \text{Div Prop (=)} \\ x = \frac{10 - y}{3} \end{array}$$

$$\cancel{\frac{3 + x}{z}} = \cancel{9} \cdot \cancel{x} \quad \begin{array}{l} \text{Mult.} \\ \text{Prop. (=)} \end{array}$$

$$\begin{array}{r} \cancel{3} \cancel{x} \\ \hline \cancel{9} z \end{array} = 9z - 3 \quad \begin{array}{l} \text{Subtract} \\ \text{Prop. (=)} \end{array}$$

$$x = 9z - 3$$

$$t + 9s = v \quad (s)$$

$$\begin{array}{r} -t \\ \hline 9s = v - t \end{array} \quad \begin{array}{l} \text{Subtraction} \\ \text{Prop. (=)} \end{array}$$

$$\begin{array}{r} 9 \\ \hline 9 \end{array} \quad \begin{array}{l} \text{Div. Prop. (=)} \\ s = \frac{v - t}{9} \end{array}$$

$$g(3h + 2) = i \quad (h)$$

$$\begin{array}{r} \cancel{g} \\ \hline 3h + 2 \end{array} = \frac{i}{g} \quad \begin{array}{l} \text{Div. Prop.} \\ (\cancel{g}) \end{array}$$

$$\begin{array}{r} -2 \\ \hline 3h \end{array} = \frac{i}{g} - 2 \quad \begin{array}{l} \text{Subtract} \\ \text{Prop. (=)} \end{array}$$

$$\begin{array}{r} 3 \\ \hline 3 \end{array} h = \frac{i}{g} - 2 \quad \begin{array}{l} \text{Div.} \\ \text{Prop. (=)} \end{array}$$

$$h = \frac{i - 2g}{3g}$$

Nov 12-1:49 PM

Solving Literal Equations WKS 2

cross out 14 & 16

Nov 8-11:55 AM