

# HW: Nov. 14 Answer Key

Activity: Equation Puzzle 11/14

J)  $7n + 2 = 4n + 17$

$$\begin{array}{r} -4n \quad -4n \\ \hline 3n + 2 = 17 \\ -2 \quad -2 \\ \hline 3n = 15 \\ \frac{3}{3} \quad \frac{3}{3} \end{array}$$

$n = 5$

K)  $11p + 16 = 2p + 7$

$$\begin{array}{r} -2p \quad -2p \\ \hline 9p + 16 = 7 \\ -16 \quad -16 \\ \hline 9p = -9 \\ \frac{9}{9} \quad \frac{-9}{9} \end{array}$$

$p = -1$

D)  $-2k + 19 = 3k - 1$

$$\begin{array}{r} +2k \quad +2k \\ \hline 19 = 5k - 1 \\ +1 \quad +1 \end{array}$$

$$\frac{20}{5} = \frac{5k}{5}$$

$4 = k$

A)  $8y - 3 = 15 + 2y$

$$\begin{array}{r} -2y \quad -2y \\ \hline 6y - 3 = 15 \\ +3 \quad +3 \end{array}$$

$$\frac{4y}{6} = \frac{18}{6}$$

$y = 3$

C)  $5(x + 2) = 3(x + 8)$

$$\begin{array}{r} 5x + 10 = 3x + 24 \\ -3x \quad -3x \\ \hline 2x + 10 = 24 \\ -10 \quad -10 \end{array}$$

$$\frac{2x}{2} = \frac{14}{2}$$

$x = 7$

I)  $7 - 6u = 5u + 29$

$$\begin{array}{r} +6u \quad +6u \\ \hline 7 = 11u + 29 \\ -29 \quad -29 \end{array}$$

$$\frac{-22}{11} = \frac{11u}{11}$$

$-2 = u$

H)  $10 - d = -34 - 5d$

$$\begin{array}{r} +5d \quad +5d \\ \hline 10 + 4d = -34 \\ -10 \quad -10 \end{array}$$

$$\frac{4d}{4} = \frac{-44}{4}$$

$d = -11$

W)  $6(t - 1) = 9(t - 4)$

$$\begin{array}{r} 6t - 6 = 9t - 36 \\ -6t \quad -6t \end{array}$$

$$\frac{-6}{3} = \frac{3t - 36}{3}$$

$$\frac{30}{3} = \frac{3t}{3}$$

$$\frac{30}{3} = \frac{3t}{3}$$

$10 = t$



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coded title.  
mountain range viewed  
through tennis racket

$$\begin{array}{r} v) 2v + 1 = 7v - 20 \\ -2v \quad -7v \\ \hline v + 1 = -20 \\ -1 \quad -1 \\ \hline v = -21 \end{array}$$

$$\begin{array}{r} w) q + 14 = 8(q + 7) \\ q + 14 = 8q + 56 \\ -q \quad -9q \\ \hline 14 = 7q + 56 \\ -56 \quad -56 \\ \hline -42 = 7q \\ \div 7 \quad \div 7 \\ -6 = q \end{array}$$

$$\begin{array}{r} m) 10b - 45 = 3(b - 15) \\ 10b - 45 = 3b - 45 \\ -3b \quad -3b \\ \hline 7b - 45 = -45 \\ +45 \quad +45 \\ \hline 7b = 0 \\ \div 7 \quad \div 7 \\ b = 0 \end{array}$$

$$\begin{array}{r} E) 4(w - 6) = 3(w + 1) \\ 4w - 24 = 3w + 3 \\ -3w \quad -3w \\ \hline w - 24 = 3 \\ +24 \quad +24 \\ \hline w = 27 \end{array}$$

$$\begin{array}{r} G) 5x + 9 = x - 23 \\ -x \quad -x \\ \hline 4x + 9 = -23 \\ -9 \quad -9 \\ \hline 4x = -32 \\ \div 4 \quad \div 4 \\ x = -8 \end{array}$$

$$\begin{array}{r} T) 12(y + 5) = 13y + 2 \\ 12y + 60 = 13y + 2 \\ -12y \quad -12y \\ \hline 60 = y + 2 \\ -2 \quad -2 \\ \hline 58 = y \end{array}$$

$$\begin{array}{r} O) 9m = 4m - 35 \\ -4m \quad -4m \\ \hline 5m = -35 \\ \div 5 \quad \div 5 \\ m = -7 \end{array}$$

$$\begin{array}{r} R) 4x + 9 = 2x - 1 \\ -2x \quad -2x \\ \hline 2x + 9 = -1 \\ -9 \quad -9 \\ \hline 2x = -10 \\ \div 2 \quad \div 2 \\ x = -5 \end{array}$$

$$\begin{array}{r} N) 80 - 3x = 5x + 8 \\ +3x \quad +3x \\ \hline 80 = 8x + 8 \\ -8 \quad -8 \\ \hline 72 = 8x \\ \div 8 \quad \div 8 \\ x = 9 \end{array}$$