

Equations Test Corrections

Mar 4-7:23 AM

$$\begin{aligned} 1) \quad -12v &= 108 \\ \underline{-12} &\quad \underline{-12} \\ v &= -9 \end{aligned}$$

Mar 4-1:54 PM

$$2) \quad 2 + 4x = -18$$
$$\begin{array}{r} -2 \\ \hline 4x = -20 \end{array}$$
$$\frac{4}{4} \quad \frac{-20}{4}$$
$$X = -5$$

Mar 4-1:56 PM

$$3) \quad -x + 16 = -8$$
$$\begin{array}{r} -16 \\ \hline -x = -24 \end{array}$$
$$\frac{-1}{-1} \quad \frac{-24}{-1}$$

$$X = 24$$

Mar 4-1:58 PM

$$4) \frac{x}{2} + 6 = 16$$
$$\underline{-6 -6}$$

$$2 \cdot \frac{x}{2} = 10 \cdot 2$$

$$x = 20$$

Mar 4-2:00 PM

$$5) 6x + 5 = 17$$
$$\underline{-5 -5}$$

$$\frac{6x}{6} = \frac{12}{6}$$

$$x = 2$$

Mar 4-2:01 PM

$$6) \quad 3x + 5x = -64$$

$$\begin{array}{rcl} 8x & = & -64 \\ \hline 8 & & 8 \end{array}$$

$$x = -8$$

Mar 4-2:03 PM

$$7) \quad 5(2x - 10) = -60$$

$$5 \cdot 2x - 5 \cdot 10 = -60$$

$$10x - 50 = -60$$

$$+50 \quad +50$$

$$\begin{array}{rcl} & & \\ & & \hline 10x & = & -10 \\ \hline 10 & & 10 \end{array}$$

$$x = -1$$

Mar 4-2:04 PM

$$\begin{array}{r} 8) \quad 6x + 9 = 19 + x \\ -x \qquad \qquad \qquad -x \\ \hline 5x + 9 = 19 \\ -9 \qquad -9 \\ \hline 5x = 10 \\ \hline 5 \qquad 5 \\ x = 2 \end{array}$$

Mar 4-2:06 PM

$$\begin{array}{r} 9) \quad 5.2m + 11.15 = -3.41 \\ -11.15 \qquad + -11.15 \\ \hline 5.2m = -14.56 \\ \hline 5.2 \qquad \qquad \qquad 5.2 \\ m = -2.8 \end{array}$$

Mar 4-2:07 PM

$$10) 4 + x = 16 \text{ or } x + 4 = 16$$

$$11) 2x - 30 = 42$$

$$12) x + 6 = 12$$

$$13) v \div 10 = 19 \text{ or } \frac{v}{10} = 19$$

Mar 4-2:09 PM

$$14) 3 \cdot p = 27 \text{ or } 3p = 27$$

$$15) 2x + 5 = 25 \text{ or } 5 + 2x = 25$$

$$16) 14 \div 3 \cdot x = 72$$

$$\frac{14}{3}x = 72$$

Mar 4-2:14 PM

17) $L = (3 + 2S)$
 $S = \text{Shana's stickers}$

$$\begin{aligned} L + S &= 51 \\ (3 + 2S) + S &= 51 \\ 3 + 3S &= 51 \\ -3 & \quad -3 \\ \hline 3S &= 48 \\ 3 & \quad 3 \\ S &= 16 \end{aligned}$$

$$\begin{aligned} 3 + 2S &= L \\ 3 + 2 \cdot 16 &= L \\ 3 + 32 &= L \\ 35 &= L \end{aligned}$$

Mar 4-2:16 PM

18) $J = 4T$
 $T = \text{Taela's money}$

$$\begin{aligned} J + T &= 100 \\ 4T + T &= 100 \\ 5T &= 100 \\ \hline 5 & \quad 5 \end{aligned}$$

$$T = 20$$

$$\begin{aligned} J &= 4T \\ J &= 4 \cdot 20 \\ J &= 80 \end{aligned}$$

Mar 4-3:11 PM

$$19) \quad 5 \cdot x + 3 = 18$$

$$\begin{array}{r} 5x + 3 = 18 \\ -3 \quad -3 \\ \hline \end{array}$$

$$\frac{5x}{5} = \frac{15}{5}$$

$$x = 3$$

Mar 4-3:14 PM

$$20) \quad J: 3 + 2M$$

M: Michael's age

$$J + M = 60$$

$$3 + 2M + M = 60$$

$$J = 3 + 2M$$

$$3 + 3M = 60$$

$$J = 3 + 2 \cdot 19$$

$$\begin{array}{r} -3 \quad -3 \\ \hline \end{array}$$

$$J = 3 + 38$$

$$\begin{array}{r} 3M = 57 \\ \hline 3 \quad 3 \end{array}$$

$$J = 41$$

$$M = 19$$

Mar 4-3:18 PM