

HW Equations w/ Distributive Property

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$$1.) -8(y-9) = 40$$

$$\begin{array}{r} -8y + 72 = 40 \\ -72 \quad -72 \\ \hline -8y = -32 \\ -8 \quad -8 \\ \hline y = 4 \end{array} \left. \begin{array}{l} \\ \\ \end{array} \right\} DS$$

72
-40
32

$y = 4$

$$5.) 2(w+6.3) = 8.2$$

$$\begin{array}{r} 2w + 12.6 = 8.2 \\ -12.6 \quad -12.6 \\ \hline 2w = 4.4 \\ 2 \quad 2 \\ \hline w = 2.2 \end{array} \left. \begin{array}{l} \\ \\ \end{array} \right\} DS$$

$w = 2.2$

$$2.) -2(6x-5) = 70$$

$$\begin{array}{r} -12x + 10 = 70 \\ -10 \quad -10 \\ \hline -12x = 60 \\ -12 \quad -12 \\ \hline x = -5 \end{array}$$

$x = -5$

$$2.) \begin{array}{r} 2.2 \\ \times 6.3 \\ \hline 12.6 \\ 13.2 \\ \hline 14.06 \end{array}$$

$$6.) 5(3x+6) = -45$$

$$\begin{array}{r} 15x + 30 = -45 \\ -30 \quad -30 \\ \hline 15x = -75 \\ 15 \quad 15 \\ \hline x = -5 \end{array} \left. \begin{array}{l} \\ \\ \end{array} \right\} SA$$

$x = -5$

$$3.) 24 = -4(m+3)$$

$$\begin{array}{r} 24 = -4m - 12 \\ +12 \quad +12 \\ \hline 36 = -4m \\ -4 \quad -4 \\ \hline m = -9 \end{array}$$

$m = -9$

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$$4.) 3(2x+1) = -27$$

$$\begin{array}{r} 6x + 3 = -27 \\ -3 \quad -3 \\ \hline 6x = -30 \\ 6 \quad 6 \\ \hline x = -5 \end{array} \left. \begin{array}{l} \\ \\ \end{array} \right\} SA$$

$x = -5$

$$42.) \begin{array}{r} -6.2 \\ \times 5.6 \\ \hline 37.2 \\ + 3100 \\ \hline 347.2 \end{array}$$

2 place values after decimal

ans: -34.72

43) $\frac{8}{3} \times \left(-\frac{2\frac{1}{2}}{\times 2}\right)$

simplify $\frac{4\cancel{2}}{3} \times \left(-\frac{5}{\cancel{2}}\right) = -\frac{20}{3}$

$-6\frac{2}{3}$ or $-6.\bar{6}$

44) $\frac{5}{2} \div \left(-\frac{4}{5}\right)$ flip

$\frac{5}{2} \cdot \left(-\frac{5}{4}\right) = -\frac{25}{8} = -3\frac{1}{8}$

45) $-18.6 \div (-3) = +6.2$

$$\begin{array}{r} 6.2 \\ 3 \overline{) 18.6} \\ \underline{-18} \downarrow \\ 06 \end{array}$$

46) not equal to 0.75

$\frac{15 \div 5}{20 \div 5} = \frac{3}{4} = 0.75 \checkmark$

$\frac{9 \div 3}{12 \div 3} = \frac{3}{4} \checkmark$

$\frac{6 \div 3}{9 \div 3} = \frac{2}{3}$ Choice C