

Name: Mrs. B

Date: _____ Period: _____

Two-Step Equations PICTURE PUZZLE



Directions: Solve each equation below. Then, cut the puzzle piece that corresponds to the problem number you're working on. Paste it to the square on the template that contains your answer. Show your work on a separate sheet of paper.

① $2(a - 3) = 4$

$$\begin{array}{r} 2a - 6 = 4 \\ +6 \quad +6 \\ \hline 2a = 10 \\ \frac{2a}{2} = \frac{10}{2} \\ \hline a = 5 \end{array}$$

② $3x - 5x = 2$

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

③ $7b + 3 = -11$

$$\begin{array}{r} -3 \quad -3 \\ \hline 7b = -14 \\ \frac{7b}{7} = \frac{-14}{7} \\ \hline b = -2 \end{array}$$

④ $-6 - y = -7$

$$\begin{array}{r} +6 \quad +6 \\ \hline -y = -1 \\ -1 \quad -1 \\ \hline y = 1 \end{array}$$

⑤ $\frac{n}{2} + 9 = 12$

$$\begin{array}{r} -9 \quad -9 \\ \hline \frac{n}{2} = 3 \\ 2 \cdot \frac{n}{2} = 3 \cdot 2 \\ \hline n = 6 \end{array}$$

⑥ $4k = 5 - 6k$

$$\begin{array}{r} +6k \quad +6k \\ \hline 10k = 5 \\ \frac{10k}{10} = \frac{5}{10} \\ \hline k = \frac{1}{2} \text{ or } .5 \end{array}$$

⑦ $\frac{c + 5}{2} = -1.2$

$$\begin{array}{r} c + 5 = -2.4 \\ -5 \quad -5 \\ \hline c = -7.4 \end{array}$$

⑧ $0 = -8m + 6$

$$\begin{array}{r} -6 \quad -6 \\ \hline -8m = -6 \\ \frac{-8m}{-8} = \frac{-6}{-8} \\ \hline m = \frac{3}{4} \text{ or } .75 \end{array}$$

⑨ $-6 + \frac{n}{4} = -5$

$$\begin{array}{r} +6 \quad +6 \\ \hline \frac{n}{4} = 1 \\ 4 \cdot \frac{n}{4} = 1 \cdot 4 \\ \hline n = 4 \end{array}$$

⑩ $-1(c + 1) = -3$

$$\begin{array}{r} -c - 1 = -3 \\ +1 \quad +1 \\ \hline -c = -2 \\ \frac{-c}{-1} = \frac{-2}{-1} \\ \hline c = 2 \end{array}$$

⑪ $-2a + 3a - 13a = 6$

$$\begin{array}{r} -12a = 6 \\ -12 \quad -12 \\ \hline a = -\frac{1}{2} \text{ or } -.5 \end{array}$$

⑫ $\frac{2}{3}m - \frac{1}{3}m = -2$

$$\begin{array}{r} \frac{1}{3}m = -2.3 \\ \frac{1}{3}m = -2.3 \\ \frac{1}{3}m = -2.3 \\ \hline m = -6.9 \end{array}$$

⑬ $1 + \frac{y}{2} = 2.5$

$$\begin{array}{r} -1 \quad -1 \\ \hline \frac{y}{2} = 1.5 \\ 2 \cdot \frac{y}{2} = 1.5 \cdot 2 \\ \hline y = 3 \end{array}$$

⑭ $-2b = -7b - 2$

$$\begin{array}{r} +7b \quad +7b \\ \hline 5b = -2 \\ \frac{5b}{5} = \frac{-2}{5} \\ \hline b = -\frac{2}{5} \end{array}$$

⑮ $k - \frac{1}{2} = 4$

$$\begin{array}{r} \frac{1}{2}k = 4.5 \\ \frac{1}{2}k = 4.5 \\ \frac{1}{2}k = 4.5 \\ \hline k = 9 \end{array}$$

⑯ $-28 = -6x + 2x$

$$\begin{array}{r} -28 = -4x \\ +4 \quad +4 \\ \hline -24 = -4x \\ \frac{-24}{-4} = \frac{-4x}{-4} \\ \hline 6 = x \end{array}$$