

Name: _____

Score: _____

Solve the Absolute Value Equation

T5ES1

Solve each equation.

1) $ 4x - 3 = x + 5 $	2) $ 2x + 1 = x + 6 $	3) $ x + 9 = 3 - x $
Solution =	Solution =	Solution =
4) $ x - 7 = 5x + 1 $	5) $ -2x + 3 = 3x - 5 $	6) $ 7x - 1 = x - 2 $
Solution =	Solution =	Solution =
7) $ 4x + 2 = 2x + 1 $	8) $ 3 - 2x = 1 - 2x $	9) $ \frac{x}{2} - 1 = 4 + x $
Solution =	Solution =	Solution =
10) $ 9x - 1 = x + 2 $	11) $ x + 4 = 4x - 3 $	12) $ 7 - 5x = 8x - 4 $
Solution =	Solution =	Solution =
13) $ 3x - 4 = \frac{x}{3} + 1 $	14) $ 10x + 2 = -4 + x $	15) $ 9 + 4x = 6x + 1 $
Solution =	Solution =	Solution =
16) $ x + 9 = 5x + 2 $	17) $ 5x + 4 = 2x - 1 $	18) $ 2x + 3 = x - 1 $
Solution =	Solution =	Solution =

Name: _____

Answer key

Score: _____

Solve the Absolute Value Equation

T5ES1

1) $ 4x - 3 = x + 5 $	2) $ 2x + 1 = x + 6 $	3) $ x + 9 = 3 - x $
Solution = $\left\{-\frac{2}{5}, \frac{8}{3}\right\}$	Solution = $\left\{-\frac{7}{3}, 5\right\}$	Solution = $\{-3\}$
4) $ x - 7 = 5x + 1 $	5) $ -2x + 3 = 3x - 5 $	6) $ 7x - 1 = x - 2 $
Solution = $\{-2, 1\}$	Solution = $\left\{\frac{8}{5}, 2\right\}$	Solution = $\left\{-\frac{1}{6}, \frac{3}{8}\right\}$
7) $ 4x + 2 = 2x + 1 $	8) $ 3 - 2x = 1 - 2x $	9) $\left \frac{x}{2} - 1\right = 4 + x $
Solution = $\left\{-\frac{1}{2}\right\}$	Solution = $\{1\}$	Solution = $\{-2, -10\}$
10) $ 9x - 1 = x + 2 $	11) $ x + 4 = 4x - 3 $	12) $ 7 - 5x = 8x - 4 $
Solution = $\left\{-\frac{1}{10}, \frac{3}{8}\right\}$	Solution = $\left\{-\frac{1}{5}, \frac{7}{3}\right\}$	Solution = $\left\{-1, \frac{11}{13}\right\}$
13) $ 3x - 4 = \left \frac{x}{3} + 1\right $	14) $ 10x + 2 = -4 + x $	15) $ 9 + 4x = 6x + 1 $
Solution = $\left\{\frac{9}{10}, \frac{15}{8}\right\}$	Solution = $\left\{-\frac{2}{3}, \frac{2}{11}\right\}$	Solution = $\{-1, 4\}$
16) $ x + 9 = 5x + 2 $	17) $ 5x + 4 = 2x - 1 $	18) $ 2x + 3 = x - 1 $
Solution = $\left\{-\frac{11}{6}, \frac{7}{4}\right\}$	Solution = $\left\{-\frac{5}{3}, -\frac{3}{7}\right\}$	Solution = $\left\{-\frac{2}{3}, -4\right\}$