

Name: \_\_\_\_\_

Score: \_\_\_\_\_

<b>Solve the Absolute Value Equation</b>
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T4ES1

Solve each equation.

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

Name: \_\_\_\_\_

Answer key

Score: \_\_\_\_\_

## Solve the Absolute Value Equation

T4ES1

1) $7 x + 1  + 2 = 3$	2) $3 2x + 5  - 11 = -2$	3) $3 5x  - 2 = 4$
Solution = $\left\{-\frac{8}{7}, -\frac{6}{7}\right\}$	Solution = $\{-4, -1\}$	Solution = $\left\{-\frac{2}{5}, \frac{2}{5}\right\}$
4) $ 9x + 3  + 4 = 10$	5) $\frac{ x-1 }{2} + 8 = 12$	6) $ x + 5  + 11 = 15$
Solution = $\left\{-1, \frac{1}{3}\right\}$	Solution = $\{-7, 9\}$	Solution = $\{-1, -9\}$
7) $ 8x + 2  + 3 = 6$	8) $-5 x + 2  + 9 = -1$	9) $8 +  2x  = 12$
Solution = $\left\{-\frac{5}{8}, \frac{1}{8}\right\}$	Solution = $\{-4, 0\}$	Solution = $\{-2, 2\}$
10) $\frac{1}{5} 10x - 1  + 1 = 5$	11) $4 3 - 2x  + 2 = 2$	12) $3 4x + 5  + 2 = 3$
Solution = $\left\{-\frac{19}{10}, \frac{21}{10}\right\}$	Solution = $\left\{\frac{3}{2}\right\}$	Solution = $\left\{-\frac{4}{3}, -\frac{7}{6}\right\}$
13) $2 - \left \frac{x}{3} + 1\right  = -8$	14) $- 3x + 2  + 7 = -1$	15) $ 5 - 8x  + 3 = 4$
Solution = $\{-33, 27\}$	Solution = $\left\{-\frac{10}{3}, 2\right\}$	Solution = $\left\{\frac{1}{2}, \frac{3}{4}\right\}$
16) $9 x + 1  - 10 = 1$	17) $4 3x + 1  + 4 = 6$	18) $8 - 2 x + 5  = 2$
Solution = $\left\{-\frac{20}{9}, \frac{2}{9}\right\}$	Solution = $\left\{-\frac{1}{6}, -\frac{1}{2}\right\}$	Solution = $\{-8, -2\}$