

Name: _____

Score: _____

Solve the Absolute Value Equation

T2MS2

Solve each equation.

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

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Name: _____

Answer key

Score: _____

Solve the Absolute Value Equation

T2MS2

1) $|x - 2| = 5$

Solution = $\{-3, 7\}$

2) $\left|\frac{x}{3} + 2\right| = 6$

Solution = $\{-24, 12\}$

3) $\left|\frac{x-2}{5}\right| = \frac{3}{2}$

Solution = $\left\{-\frac{11}{2}, \frac{19}{2}\right\}$

4) $|5 - x| = 4$

Solution = $\{1, 9\}$

5) $\left|\frac{-x+6}{2}\right| = \frac{3}{4}$

Solution = $\{-22, 8\}$

6) $|x + 7| = 15$

Solution = $\{-22, 8\}$

7) $|2x - 4| = 8$

Solution = $\{-2, 6\}$

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$|x + 2| = 5$

Solution = $\{-9, 21\}$

10) $\left|-x - \frac{2}{3}\right| = \frac{5}{4}$

Solution = $\left\{-\frac{31}{6}, -\frac{13}{4}\right\}$

$|x + 2| = \frac{5}{4}$

Solution = $\left\{-\frac{13}{4}, -\frac{3}{4}\right\}$

13) $|4 - x| = 2$

Solution = $\{2, 6\}$

$\left|-\frac{3x}{2}\right| = 4$

Solution = $\{2, 12\}$

Solution = $\left\{\frac{10}{3}, -2\right\}$

16) $|5 - x| = \frac{1}{2}$

Solution = $\left\{\frac{9}{2}, \frac{11}{2}\right\}$

17) $\left|x + \frac{2}{5}\right| = 6$

Solution = $\left\{-\frac{32}{5}, \frac{28}{5}\right\}$

18) $|4x + 2| = 3$

Solution = $\left\{-\frac{5}{4}, \frac{1}{4}\right\}$