

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

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

**Solve the Absolute Value Equation**

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

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 = $\left\{\frac{9}{2}, \frac{15}{2}\right\}$	6) $ x + 7  = 15$  Solution = $\{-22, 8\}$
7) $ 2x - 4  = 8$  Solution = $\{-2, 6\}$	8) $ 6 - x  = 4$  Solution = $\{2, 10\}$	9) $\left -\frac{x}{3} + 2\right  = 5$  Solution = $\{-9, 21\}$
10) $\left -x - \frac{2}{3}\right  = \frac{9}{2}$  Solution = $\left\{-\frac{31}{6}, \frac{23}{6}\right\}$	11) $\left \frac{-3+x}{4}\right  = 1$  Solution = $\{-1, 7\}$	12) $ x + 2  = \frac{5}{4}$  Solution = $\left\{-\frac{13}{4}, -\frac{3}{4}\right\}$
13) $ 4 - x  = 2$  Solution = $\{2, 6\}$	14) $ -x + 7  = 5$  Solution = $\{2, 12\}$	15) $\left 1 - \frac{3x}{2}\right  = 4$  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 = $\left\{-\frac{5}{4}, \frac{1}{4}\right\}$