

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

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

**Solve the Absolute Value Equation**

T5ES2

Solve each equation.

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

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

Answer key

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

## Solve the Absolute Value Equation

T5ES2

1)  $|5x - 1| = |3x + 1|$

Solution =  $\{0, 1\}$

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

Solution =  $\{-3, -\frac{9}{5}\}$

3)  $|-x + 13| = |x + 1|$

Solution =  $\{6\}$

4)  $|2x + 3| = |5x - 2|$

Solution =  $\{-\frac{1}{7},$

7)  $|7x + 1| = |4$

Solution =  $\{-\frac{4}{3}, -$

10)  $|x + 5| = |5$

Solution =  $\{-\frac{3}{4}, -$

13)  $|3x + 4| = |$

Solution =  $\{-\frac{13}{2}, \frac{5}{4}\}$

16)  $|9x + 2| = |5x - 3|$

Solution =  $\{-\frac{5}{4}, \frac{1}{14}\}$

5)  $|3x + 7| = |2x + 3|$

Solution =  $\{-4, \frac{2}{5}\}$

17)  $|3x + 7| = |x - 2|$

Solution =  $\{-\frac{9}{2}, -\frac{5}{4}\}$

6)  $|4x + 1| = |x - 3|$

=  $\{-\frac{4}{3}, \frac{2}{5}\}$

7)  $|7| = |x - 1|$

=  $\{-8, -2\}$

+ 5| = |8x + 2|

=  $\{-\frac{1}{2}, \frac{3}{2}\}$

+ 2| = |-2x + 1|

Solution =  $\{-\frac{3}{8}, -\frac{1}{12}\}$

18)  $|6x - 1| = |2x + 5|$

Solution =  $\{-\frac{1}{2}, \frac{3}{2}\}$

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