

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

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

**Solve the Absolute Value Equation**

T2MS1

Solve each equation.

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

**PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

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

Answer key

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

## Solve the Absolute Value Equation

T2MS1

1)  $|x - 1| = 2$

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

2)  $\left|\frac{x}{2} + 5\right| = 7$

Solution =  $\{-24, 4\}$

3)  $\left|\frac{x-3}{6}\right| = \frac{15}{2}$

Solution =  $\{-42, 48\}$

4)  $|4 - x| = 6$

Solution =  $\{-2, 10\}$

5)  $\left|\frac{-x+8}{3}\right| = \frac{9}{4}$

Solution =  $\{-24, 4\}$

6)  $|x + 9| = 17$

Solution =  $\{-26, 8\}$

7)  $|3x - 5| = 11$

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

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

$|x + 1| = 6$

Solution =  $\{-25, 35\}$

10)  $\left|-x - \frac{1}{2}\right| = \frac{3}{2}$

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

$|x + 3| = \frac{4}{3}$

Solution =  $\{-\frac{13}{3}, -\frac{5}{3}\}$

13)  $|7 - x| = 5$

Solution =  $\{2, 12\}$

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

Solution =  $\{3, 9\}$

Solution =  $\{\frac{3}{2}, \frac{9}{2}\}$

16)  $|4 - x| = \frac{1}{3}$

Solution =  $\{\frac{11}{3}, \frac{13}{3}\}$

17)  $\left|x + \frac{1}{2}\right| = 4$

Solution =  $\{-\frac{9}{2}, \frac{7}{2}\}$

18)  $|3x - 1| = 2$

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