

NAME _____

Module 6 Solving Absolute Value Equations
and Inequalities

Lesson 1 Solving Basic Absolute Value
Equations



guided
practice

Set 1

1. Solve:

$|y| = 2$

$y = 2 \text{ or } y = -2$

Solution Set: $\{2, -2\}$

3. Solve:

$|z - 6| = 2$

$z = 8 \text{ or } z = 4$

Solution Set: $\{8, 4\}$

Set 2

1. Solve:

$|x| = -6$

no solution

Solution Set: \emptyset

3. Solve:

$|Y - 2| = 0$

$Y = 2$

Solution Set: $\{2\}$

2. Solve:

$|3P| = 21$

$P = 7 \text{ or } P = -7$

Solution Set: $\{7, -7\}$

4. Solve:

$|3x + 5| = 2$

$x = -1 \text{ or } x = -\frac{7}{3}$

Solution Set: $\{-1, -\frac{7}{3}\}$

2. Solve:

$|w + 5| = -7$

no solution

Solution Set: \emptyset

4. Solve:

$|4n + 1| = 0$

$n = -\frac{1}{4}$

Solution Set: $\{-\frac{1}{4}\}$

