

Algebra 1 1/11

Warm Up IXL

Make Up

Algebra 1

C.1-C.6 or I.1-I.7

Q.1-Q.11 or J.5-J.6

## 2.5 Solving Absolute Value Equations Day 2

I can solve and evaluate absolute value equations

$$7) \frac{7|n|}{7} = \frac{56}{7}$$

$$|n| = 8$$

Case 1

$$n = 8$$

Case 2

$$n = -8$$

$$8) \frac{5|m|}{5} = 3 \cdot 5$$

$$|m| = 15$$

Case 1

$$m = 15$$

Case 2

$$m = -15$$

## I can solve and evaluate absolute value equations

$$15) |7m| + 3 = 73$$

$$\begin{array}{r} |7m| + 3 = 73 \\ \underline{-3 \quad -3} \\ |7m| = 70 \end{array}$$

Case 1

$$\frac{7m}{7} = \frac{70}{7}$$

$$m = 10$$

Case 2

$$\frac{7m}{7} = \frac{-70}{7}$$

$$m = -10$$

$$16) \left| \frac{x}{7} \right| - 8 = -7$$

$$\begin{array}{r} \left| \frac{x}{7} \right| - 8 = -7 \\ \underline{+8 \quad +8} \\ \left| \frac{x}{7} \right| = 1 \end{array}$$

Case 1

$$\frac{x}{7} = 1 \cdot 7$$

$$x = 7$$

Case 2

$$\frac{x}{7} = -1 \cdot 7$$

$$x = -7$$

## I can solve and evaluate absolute value equations

$$5) \frac{8}{5} \cdot \frac{5}{8} |b| = \frac{25}{1} \cdot \frac{8}{5}$$

$$|b| = 40$$

Case 1	Case 2
$b = 40$	$b = -40$

$$9) \left| \frac{-x}{8} + 15 \right| = 20$$

Case 1	Case 2
$\frac{-x}{8} + 15 = 20$	$\frac{-x}{8} + 15 = -20$
$\frac{-x}{8} - 15 = 20$	$\frac{-x}{8} - 15 = -20$

$\frac{-x}{8} = 5 \cdot 8$	$\frac{-x}{8} = -35$
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$\frac{-1x}{-1} = \frac{40}{-1}$	$\frac{-1x}{-1} = \frac{-280}{-1}$
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$x = -40$	$x = 280$
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I can solve and evaluate absolute value equations

**ICA**  
**Wkst**