Score:

## Solve the Absolute Value Equation

T4ES2

Solve each equation.

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

$$2) \ 2|-x-7|-10=-9$$

2) 
$$2|-x-7|-10=-9$$
 3)  $4\left|\frac{x}{2}+3\right|+1=5$ 

Solution =

Solution =

Solution =

4) 
$$7 - |3x + 9|$$

## **PREVIEW**

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Solution =

7) 
$$5|4x + 3| =$$

$$+ 2 = 11$$

+1|+9=-7

Solution =

10) 
$$-|7x + 8| +$$

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Solution =

13) 
$$\frac{|2x-1|}{2} = 1$$

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$$+8|-10=6$$

+3 | +1 = 2

Solution =

16) 
$$3 - 4|5x + 3| = 2$$

17) 
$$4|3x + 2| - 1 = 5$$

18) 
$$7|-x-2|-3=4$$

**Answer key** 

Score:

## Solve the Absolute Value Equation

T4ES2

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

2) 
$$2|-x-7|-10=-9$$

1) 
$$5 - |x - 1| = -3$$
 2)  $2|-x - 7| - 10 = -9$  3)  $4\left|\frac{x}{2} + 3\right| + 1 = 5$ 

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

Solution = 
$$\left\{-\frac{15}{2}, -\frac{13}{2}\right\}$$

Solution = 
$$\{-4, -8\}$$

4) 
$$7 - |3x + 9| = 1$$

5) 
$$|9x - 2| + 5 = 10$$

$$|6) -|x+1| + 9 = -7$$

Solution = 
$$\{-5, \cdot\}$$

## **PREVIEW**

7) 5|4x + 3| =

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Solution = 
$$\left\{ -\frac{27}{20}, 10 \right\} - |7x + 8| +$$

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Solution =  $\left\{-\frac{10}{7}, \cdot\right\}$ 

13) 
$$\frac{|2x-1|}{2} = 1$$

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= {-3, 3}

 $= \left\{ -\frac{7}{10}, -\frac{1}{2} \right\} + 8|-10 = 6$ 

$$+8|-10=6$$

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

Solution = $\{3, 7\}$ 

Solution =  $\{-6, 2\}$ 

16) 
$$3 - 4|5x + 3| = 2$$

17) 
$$4|3x + 2| - 1 = 5$$

18) 
$$7|-x-2|-3=4$$

Solution = 
$$\left\{-\frac{13}{20}, -\frac{11}{20}\right\}$$
 Solution =  $\left\{-\frac{7}{6}, -\frac{1}{6}\right\}$ 

Solution = 
$$\left\{-\frac{7}{6}, -\frac{1}{6}\right\}$$

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