

## Identifying Solutions

Two-step: S2

Choose the correct solution that best describes each inequality.

1)  $|6x + 18| \leq 30$

- a)  $x \geq -8$  and  $x \leq 2$       b)  $x \geq -2$  and  $x \leq 8$   
 c)  $x \geq -2$                               d)  $x \leq -8$  or  $x \geq 2$

2)  $|7x| + 12 > 68$

- a)  $x < 8$                                       b)  $-8 < x < 8$   
 c)  $x < -8$  or  $x > 8$                       d)  $x > 8$

3)  $\frac{|x|}{3} - 21 < -24$

- a)  $x < 9$   
 c)  $x > -9$  and  $x < 9$

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- b)  $x \leq 12$   
 d)  $x \leq 4$  or  $x \geq 12$

5)  $|17x| + 15 > 32$

- a)  $x > -1$  and  $x < 1$   
 c)  $x > 1$

-35

- b)  $x \leq -15$  or  $x \geq -5$   
 d) No solution

7)  $\frac{|x - 15|}{7} \geq -2$

- a)  $x \leq -1$                                       b)  $x \leq -1$  or  $x \geq 1$   
 c)  $x \geq 1$                                         d) No solution

8)  $|8x| - 6 < 50$

- a)  $x > 7$                                         b)  $x < 7$  and  $x > -7$   
 c)  $x < -7$  or  $x > 7$                         d)  $x < 7$