

## Identifying Solutions

One-step: S2

Choose the correct solution that best describes each inequality.

1)  $\frac{|x|}{3} > 7$

- a)  $x < -21$  or  $x > 21$       b)  $x > 21$   
 c)  $x > -21$                       d)  $x < 21$  and  $x > -21$

2)  $-|8x| < 16$

- a)  $x < -2$  or  $x > 2$               b)  $x > -2$   
 c)  $x > -2$  and  $x < 2$               d) No solution

3)  $|-x + 6| \leq 4$

- a)  $x \leq 10$  and  $x \geq -2$   
 c)  $x \geq 10$  or  $x \leq 2$

- b)  $x \leq 15$  and  $x \geq -11$   
 d)  $x \leq -15$  or  $x \geq 11$

5)  $|x - 15| \geq 8$

- a)  $x \leq 7$  or  $x \geq 23$   
 c)  $x \geq -7$  and  $x \leq 23$

- b)  $x > -14$  and  $x < 4$   
 d) No solution

7)  $|3x| < 27$

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

d)  $x < -9$

c)  $-16 \leq x \leq 16$

- b)  $x \leq -16$  or  $x \geq 16$   
 d) No solution

9)  $|x - 9| < 7$

- a)  $x > 16$  or  $x < -2$               b)  $x < 16$  and  $x > -2$   
 c)  $x > 2$  and  $x < 16$               d)  $x > 16$  or  $x < 2$

10)  $|x + 3| \geq 17$

- a)  $x \geq -20$  and  $x \leq 14$               b)  $x \leq -20$  or  $x \geq 14$   
 c)  $x \leq -14$  or  $x \geq 20$               d)  $x \geq -14$  and  $x \leq 20$

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