

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) {All real numbers}

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) {All real numbers}

7) $|3x| < 27$

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

- b) $x \leq -16$ or $x \geq 16$
 c) $-16 \leq x \leq 16$ 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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- a) $x \leq 10$ and $x \geq -2$
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