

Identifying Solutions

One-step: S1

Choose the correct solution that best describes each inequality.

1) $|x + 9| < 2$

- a) $x < -7$ and $x > 11$ b) $7 < x < 11$
 c) $x > -7$ or $x < -11$ d) $x > -11$ and $x < -7$

2) $|x - 6| > 3$

- a) $x < 9$ and $x > -3$ b) $3 < x < 9$
 c) $x < 3$ or $x > 9$ d) $x > 9$ or $x < -3$

3) $|2x| \leq 16$

- a) $-8 \leq x \leq 8$
 c) $x \leq -8$ or $x \geq 8$

- b) $x \leq -20$ or $x \geq 20$
 d) No solution

5) $|x - 7| < 12$

- a) $x > -19$ and $x < 5$
 c) $x > 19$ or $x < -5$

- b) $x > 4$ and $x < 16$
 d) No solution

7) $\frac{|x|}{2} \leq 9$

- a) $x \leq 18$
 c) $x \geq -18$ and $x \leq 18$ d) $x \leq -18$

- b) $x \leq -3$
 d) No solution

9) $|x + 3| > -14$

- a) $x > 17$ or $x < -11$ b) $x > -17$ and $x < 11$
 c) $x > 17$ d) No solution

10) $|x - 5| < 1$

- a) $4 < x < 6$ b) $x > 6$ or $x < 4$
 c) $x > -4$ or $x < -6$ d) $x > -6$ and $x < 4$

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