

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) {All real numbers}

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) {All real numbers}

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

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

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