

## Identifying Solutions - MCQ

Two-step: S3

Choose the correct solution that best describes each inequality.

1)  $|7x - 21| \leq 49$

- a)  $(-\infty, -4] \cap [-10, \infty)$       b)  $(-\infty, 10) \cap (4, \infty)$   
 c)  $(-\infty, 10] \cap [-4, \infty)$       d)  $(-\infty, 10) \cap (-4, \infty)$

2)  $-|24x| - 20 \geq 52$

- a)  $(-\infty, -3]$       b)  $(-\infty, 3] \cup [-3, \infty)$   
 c)  $[3, \infty)$       d) No solution

3)  $|11x + 22| < 44$

- a)  $(-6, \infty)$       b)  $(-\infty, 1) \cup (-1, \infty)$   
 c)  $(-\infty, 2)$       d)  $(1, \infty)$

5)  $\frac{|x - 9|}{5} \geq 10$

- a)  $(-\infty, -59] \cup [41, \infty)$       b)  $(-\infty, 23] \cap [9, \infty)$   
 c)  $(-\infty, 41] \cup [59, \infty)$       d) No solution

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7)  $|8x - 24| > 72$

- a)  $(-\infty, -6) \cup (12, \infty)$       b)  $(-\infty, 6) \cup (-12, \infty)$   
 c)  $(6, \infty)$       d) No solution

8)  $|-x - 12| - 2 < 1$

- a)  $(-\infty, -9)$       b)  $(-\infty, 15) \cap (-9, \infty)$   
 c)  $(15, \infty)$       d)  $(-\infty, -9) \cap (-15, \infty)$

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