

## Identifying Solutions - MCQ

Two-step: S2

Choose the correct solution that best describes each inequality.

1)  $\frac{|6x|}{54} + 5 < 6$

- a)  $[-9, 9]$                       b)  $(-\infty, -9) \cup (9, \infty)$   
 c)  $(-\infty, 9)$                       d)  $(-9, 9)$

2)  $|3x + 15| > 30$

- a)  $(-\infty, -15) \cup (5, \infty)$                       b)  $(-\infty, 15) \cup (5, \infty)$   
 c)  $(-\infty, 5) \cap (15, \infty)$                       d)  $(-15, 5)$

3)  $|-13x| + 4 \leq 43$

- a)  $(-\infty, 3) \cup (-3, \infty)$                       b)  $(-\infty, -51] \cap [51, \infty)$   
 c)  $[-3, \infty)$                       d)  $(-\infty, \infty)$

5)  $|10x| + 9 > 29$

- a)  $(-\infty, -2) \cup (2, \infty)$                       b)  $(-\infty, -2) \cap (10, \infty)$   
 c)  $(-\infty, -2)$                       d)  $(-2, 10)$

7)  $\frac{|x - 18|}{4} \geq -16$

- a)  $(-\infty, -84) \cap (46, \infty)$                       b)  $(-\infty, -84] \cup [46, \infty)$   
 c)  $(-84, 46)$                       d)  $(-\infty, \infty)$

8)  $|6x + 24| \leq 48$

- a)  $(-\infty, -12]$                       b)  $[-12, 4]$   
 c)  $(-12, 4)$                       d) No solution

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