

## Identifying Solutions - MCQ

One-step: S3

Choose the correct solution that best describes each inequality.

1)  $\frac{|x|}{15} \geq 1$

- a)  $(-\infty, 15] \cup [-15, \infty)$       b)  $(-\infty, -15]$   
 c)  $[15, \infty)$       d)  $(-\infty, -15] \cup [15, \infty)$

2)  $|x| - 6 \leq 2$

- a)  $(-\infty, -8] \cup [8, \infty)$       b)  $(-\infty, 8] \cap [-8, \infty)$   
 c)  $(-\infty, 8)$       d)  $(-\infty, 8]$

3)  $|x + 10| > 15$

- a)  $(-\infty, 25) \cup (-5, \infty)$       b)  $(-\infty, 25) \cup (5, \infty)$   
 c)  $(-\infty, -25) \cup (5, \infty)$       d)  $(-\infty, -25) \cup (-5, \infty)$

4)  $16 + |x| < -18$

- a)  $(-\infty, 34) \cap (-34, \infty)$   
 b)  $(-\infty, 34) \cap (-34, \infty)$   
 c)  $(-\infty, 34) \cap (-34, \infty)$   
 d) No solution

5)  $|-5x| \leq 35$

- a)  $(-7, \infty)$       b)  $(-7, \infty)$   
 c)  $(-\infty, -7] \cap [7, \infty)$       d)  $(-\infty, -7] \cap [7, \infty)$

7)  $|x + 17| < 20$

- a)  $(-\infty, 3) \cap (-37, \infty)$       b)  $(-\infty, 3) \cap (-37, \infty)$   
 c)  $(-\infty, 37) \cap (3, \infty)$       d)  $(-\infty, -3) \cap (-37, \infty)$   
 e)  $(-\infty, -2) \cup (2, \infty)$       f)  $(-\infty, 2) \cup (-2, \infty)$   
 g)  $(-\infty, -2) \cup (2, \infty)$       h)  $(2, \infty)$

9)  $-|x - 2| > 5$

- a)  $(-\infty, -7)$       b)  $(3, \infty)$   
 c)  $(-\infty, -7) \cup (3, \infty)$       d) No solution

10)  $|-x| + 19 \leq 22$

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

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