

## Identifying Solutions - MCQ

Two-step: S3

Choose the correct solution that best describes each inequality.

1)  $-32 < 5x + 3 < -17$

- a)  $x < -4$                       b)  $-7 < x < 4$   
 c)  $-7 < x < -4$                 d)  $x < -7$

2)  $3x + 6 \geq 15$  or  $\frac{2x}{5} - 1 > 3$

- a)  $x > 10$                         b)  $x \geq 3$   
 c)  $x \leq 3$  or  $x > 10$         d)  $x < 3$  or  $x \geq 10$

3)  $\frac{x}{5} + 12 > 15$  or

- a)  $x < -15$  or  $x > 11$   
 c)  $x < 11$

$5x - 3 > 27$

- b)  $6 \leq x < 19$   
 d)  $x < 6$

5)  $19 \leq \frac{7x}{9} + 5 < 3$

- a)  $8 < x \leq 36$   
 c)  $x < 36$

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- b)  $-12 < x < 4$   
 d)  $x < -12$

7)  $1 + 2x \leq 33$  and

- a)  $x \geq 9$  and  $x \leq 16$   
 c)  $x \leq 9$                               d)  $x \geq 16$

$3x - 20 \geq 7$

- b)  $x \geq 9$   
 c)  $x \geq -2$                               d)  $x \leq -9$  or  $x \geq -2$

9)  $5x - 1 \geq 49$  or  $6x + 3 > 15$

- a)  $x \geq 10$                         b)  $x > 2$   
 c)  $x < 2$  or  $x > 10$         d)  $x \leq 2$  or  $x > 10$

10)  $2x + 17 \leq 7$  or  $\frac{x-4}{4} \geq 9$

- a)  $x \leq -40$  or  $x \geq 5$         b)  $x \geq 40$   
 c)  $x \geq -5$                               d)  $x \leq -5$  or  $x \geq 40$

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