

## Identifying Solutions - MCQ

Two-step: S1

Choose the correct solution that best describes each inequality.

1)  $\frac{x-4}{5} \leq 2$  and  $7x - 19 > 2$

- a)  $3 \leq x < 14$                       b)  $x \geq 3$   
 c)  $3 < x < 14$                       d)  $3 < x \leq 14$

2)  $5 + 2x \geq 19$  or  $2x - 5 \geq 3$

- a)  $x \geq 4$                               b)  $4 \leq x \leq 7$   
 c)  $x \leq 4$  or  $x \geq 7$               d)  $x \geq 7$

3)  $3x - 16 \leq 11$  and  $5x - 1 > 14$

- a)  $6 \leq x < 9$   
 c)  $x < 6$

$7x < x + 18$

- b)  $x < 3$  or  $x \geq 7$   
 d)  $x \leq 3$

5)  $-10 < 16 + 13x \leq 1$

- a)  $-2 < x \leq -1$   
 c)  $x < -1$

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$x + 17 > 5$

- b)  $x > -8$   
 d)  $x < -8$  or  $x > 6$

7)  $19 + 2x \geq 7$  and  $5x - 1 > 14$

- a)  $x \geq 2$  and  $x \leq 6$   
 c)  $x \geq -6$                               d)  $x \geq -6$  and  $x \leq 2$

$3x + 4 > 25$

- b)  $x < -7$  or  $x \geq 8$   
 d)  $x < 7$  or  $x \geq 8$

9)  $3x + 17 \leq 8$  or  $\frac{x-7}{4} \geq 3$

- a)  $x < 3$  or  $x > 19$               b)  $x \geq -3$   
 c)  $x \leq -3$  or  $x \geq 19$               d)  $x \geq 19$

10)  $24 \leq \frac{5x}{2} + 4 < 39$

- a)  $8 < x \leq 14$                       b)  $x \leq 14$   
 c)  $x \geq 8$                               d)  $8 \leq x < 14$

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