

## Identifying Solutions - MCQ

Two-step: S2

Choose the correct solution that best describes each inequality.

1)  $3 < 51 + 8x < 75$

- a)  $x < -6$                       b)  $-6 < x < 3$   
 c)  $x < 3$                           d)  $-3 < x < 6$

2)  $3 + 5x \geq 28$  and  $\frac{4x}{3} + 1 \leq 9$

- a)  $x \geq 5$                           b)  $5 \leq x < 6$   
 c)  $x \geq 5$  and  $x \leq 6$         d)  $x \geq 6$

3)  $7 + 3x \geq 19$  or  $4x > 45$

- a)  $x \leq 4$  or  $x \geq 9$   
 c)  $x \geq 4$

4)  $4x > 45$

- b)  $48 \leq x < 60$   
 d)  $x < 48$

5)  $\frac{x-2}{7} \leq 3$  and  $6x > 42$

- a)  $10 \leq x < 23$   
 c)  $x < 10$

6)  $\frac{x-9}{5} \geq 2$

- b)  $x \leq 3$  or  $x \geq 19$   
 d)  $x \leq -3$

7)  $2x - 5 \geq 13$  and  $4x > 45$

- a)  $x \geq 9$  and  $x < 11$   
 c)  $x \geq 9$                           d)  $x > 9$  and  $x \leq 11$

8)  $3x + 2 > 17$

- b)  $x > 5$   
 d)  $x < 5$

9)  $\frac{x}{9} + 10 > 13$  or  $3x + 16 < 19$

- a)  $x < 27$                           b)  $x > 27$   
 c)  $x < 1$  or  $x > 27$         d)  $x < 1$

10)  $-24 < 2x - 4 < -10$

- a)  $-10 < x < -3$               b)  $x < -3$   
 c)  $x > -10$                       d)  $-3 < x < 10$

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