

## Identifying Solutions - MCQ

Multi-step: S3

Choose the correct solution that best describes each inequality.

1)  $-4 < \frac{x}{3} - \frac{x}{9} < 4$

- a)  $6 < x < 18$                       b)  $-18 < x < 18$   
 c)  $x > 18$                               d)  $x > 6$

2)  $\frac{2x+6}{4} > 3$  or  $2(6x+7) \leq 26$

- a)  $x > 3$                                       b)  $x \leq 1$  or  $x > -3$   
 c)  $x \leq 1$  or  $x > 3$                       d)  $x \leq 1$

3)  $5(-x-6) \leq -60$  and

- a)  $x \leq 25$   
 c)  $x > 6$  and  $x < 25$

$5 \leq \frac{2x-3}{9}$

- b)  $x < 8$  or  $x \geq 24$   
 d)  $x \geq 24$

5)  $\frac{1}{5}(8x+26) > -14$  and

- a)  $x \leq 11$  or  $x > -12$   
 c)  $x < 11$  or  $x > -12$

$5$  and  $42 > 14(-x-3)$

- b)  $x > -3$   
 d)  $x \leq -3$  and  $x > -6$

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7)  $1 \leq \frac{-x-16}{2} \leq 2$

- a)  $x \geq -20$                               b)  $x \leq -18$   
 c)  $-20 \leq x \leq -18$                       d)  $-20 < x \leq -18$

8)  $4(3x+6) < -24$  or  $\frac{2x-5}{7} > 3$

- a)  $x < -4$  or  $x > 13$                       b)  $x < 4$  or  $x > 13$   
 c)  $x > 13$                                       d)  $x < -4$