

## Identifying Solutions - MCQ

Multi-step: S2

Choose the correct solution that best describes each inequality.

1)  $\frac{1}{4}(6x + 8) > 11$  or  $3x - \frac{x}{2} < -15$

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

2)  $6(4x - 23) \leq 54$  and  $7(2 + 3x) > -49$

- a)  $x < 8$                               b)  $x > -3$   
 c)  $x < 8$  and  $x > -3$       d)  $x \leq 8$  and  $x > -3$

3)  $2(5x + 18) > -84$  or

- a)  $x \leq 14$   
 c)  $x \geq -12$  or  $x > 14$

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- b)  $-6 \leq x \leq 9$   
 d)  $x \geq 9$

5)  $\frac{2x}{3} - \frac{x}{9} \leq 5$  and  $1 -$

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

$3 \geq \frac{5x + 14}{8}$

- b)  $x \geq 2$  or  $x > 6$   
 d)  $x \leq 2$

7)  $\frac{1}{3}(8x + 2) < 14$  or  $91 > 13(12x - 5)$

- a)  $x < -1$                               b)  $x < 1$   
 c)  $x < 1$  or  $x < 5$               d)  $x < 5$

8)  $-4 < \frac{5x + 9}{4} \leq 6$

- a)  $x > -5$                               b)  $-5 < x \leq 3$   
 c)  $-5 < x < 3$                       d)  $x \leq 3$

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$39$

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b)  $-6 \leq x \leq 9$

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b)  $x \geq 2$  or  $x > 6$

c)  $x \leq 9$  and  $x \geq -4$

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d)  $x \leq 2$

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