

## Identifying Solutions

MS5

Choose the correct solution that best describes each inequality.

1)  $8 > \frac{x+3}{6}$

- a)  $[45, \infty)$                       b)  $(-\infty, 45)$   
 c)  $(-45, \infty)$                       d)  $(-\infty, -45)$

2)  $9x + 18 \geq -27$

- a)  $(-\infty, 5)$                       b)  $(-5, \infty)$   
 c)  $[-5, \infty)$                       d)  $[5, \infty)$

3)  $-13 + 21x < 29$

- a)  $(-\infty, 2)$   
 c)  $(-\infty, 2]$

- b)  $(-\infty, 58]$   
 d)  $[58, \infty)$

5)  $-6 < 12 + \frac{x}{2}$

- a)  $(-\infty, -36)$   
 c)  $(-\infty, 36)$

- b)  $(-\infty, 8)$   
 d)  $[-8, \infty)$

7)  $5x + 19 \geq 24x$

- a)  $(-\infty, 1]$   
 c)  $(-\infty, -1)$

- d)  $[1, \infty)$

- c)  $(-24, \infty)$

- b)  $(24, \infty)$   
 d)  $(-\infty, -24]$

9)  $-30 < -10 + 4x$

- a)  $[5, \infty)$                       b)  $(-\infty, 5)$   
 c)  $(-\infty, -5]$                       d)  $(-5, \infty)$

10)  $15 > \frac{x}{6} + 1$

- a)  $(-\infty, -84)$                       b)  $(-84, \infty)$   
 c)  $(-\infty, 84)$                       d)  $[84, \infty)$

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