Name : _____

Score : _____

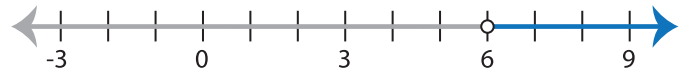## Identifying Inequalities

ES2

Choose the correct inequality that best describes each graph.

1)

(number line from -5 to 7, closed dot at 2, shaded right)
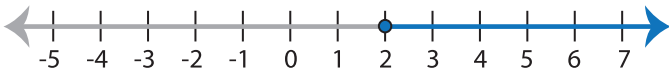
a) $18 < 2(5x - 1)$ b) $2(5x - 1) \leq 18$

c) $2(5x - 1) \geq 18$ d) $18 > 2(5x - 1)$

2)

(number line from -3 to 9, open dot at 6, shaded right)

a) $22 \leq x + \dfrac{8x}{3}$ b) $x + \dfrac{8x}{3} > 22$

c) $x + \dfrac{8x}{3} < 22$ d) $22 \geq x + \dfrac{8x}{3}$

3)

(number line from -66 to 0, shaded left)

a) $\dfrac{2x - 17}{9} > 3$

c) $3 \geq \dfrac{2x - 17}{9}$

(number line 10 12 14 16 18 20 22)
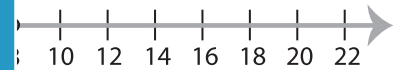
b) $66 < 3(2x + 6)$

d) $3(2x + 6) \geq 66$

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5)

(number line from -21 to 0, shaded left)

a) $\dfrac{3x}{7} + x \geq 10$

c) $10 > x + \dfrac{3x}{7}$

(number line 1 to 7, open dot at 1)

b) $2(9x + 5) < 28$

d) $28 \leq 2(9x + 5)$

7)

(number line from -18 to 18, closed dot at 9, shaded right)
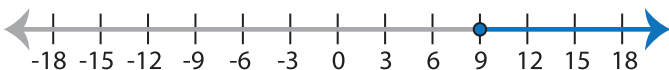
a) $5 > x - \dfrac{14x}{9}$ b) $\dfrac{14x}{9} - x \leq 5$

c) $\dfrac{14x}{9} - x \geq 5$ d) $5 < x - \dfrac{14x}{9}$

8)

(number line from -8 to 4, open dot at 2, shaded right)
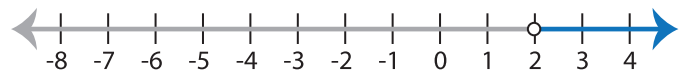
a) $\dfrac{6x + 4}{8} > 2$ b) $2 \geq \dfrac{6x + 4}{8}$

c) $2 \leq \dfrac{6x + 4}{8}$ d) $\dfrac{6x + 4}{8} < 2$