Identifying Inequalities

ES4

Choose the correct inequality that best describes each graph.

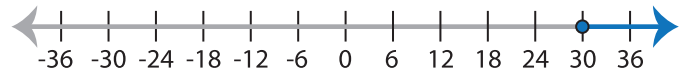### 1)

-35 -28 -21 -14 -7 0 7 14 21 28 35 42 49
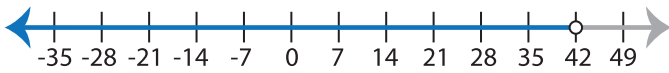
a) $\dfrac{x}{3} - 13 \le 9$ b) $\dfrac{x}{2} - 8 > 13$

c) $\dfrac{x}{2} - 8 < 13$ d) $\dfrac{x}{2} - 13 \ge 9$

2)

-36 -30 -24 -18 -12 -6 0 6 12 18 24 30 36

a) $\dfrac{x+6}{9} \ge 4$ b) $\dfrac{x+6}{9} \le 4$

c) $\dfrac{x+4}{9} > 6$ d) $\dfrac{x+4}{6} < 9$

3)

-35 -30 -25 -20 -15 -10 -5
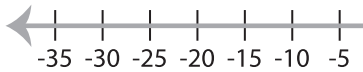
a) $4 + 5x < 24$
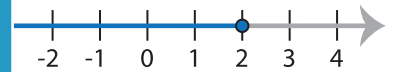
c) $4 + 5x \ge 29$

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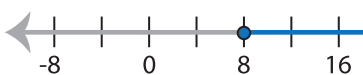Not a member? Please sign up to gain complete access.

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-2 -1 0 1 2 3 4

b) $12x + 4 \le 28$

d) $12x + 4 \ge 28$

5)

-8 0 8 16

a) $3x - 18 \ge 6$

c) $3x - 18 > 6$

-12 -8 -4 0 4 8 12

b) $\dfrac{x}{4} + 10 \ge 2$

d) $\dfrac{x}{4} + 10 \le 2$

7)

-18 -15 -12 -9 -6 -3 0 3 6 9 12 15 18
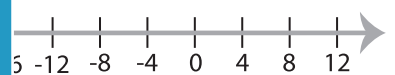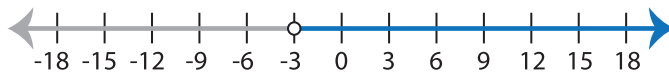
a) $28 + 6x < 10$ b) $28 + 6x > 10$

c) $10 + 6x > 28$ d) $10 + 6x < 28$

8)

-2 0 2 4 6 8 10 12 14 16 18 20 22

a) $8x - 7 > 9$ b) $7x - 9 \le 8$

c) $8x - 7 < 9$ d) $7x - 9 > 8$