

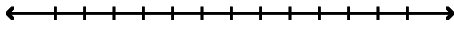
# Inequalities

**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

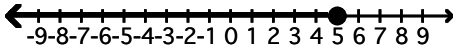
**Solve the inequality. Graph the solution on a number line and represent the solution in interval notation when possible.**

1)  $3x + 7 < 22$

1) \_\_\_\_\_

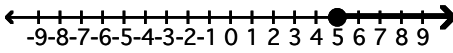


A)  $x \leq 5$



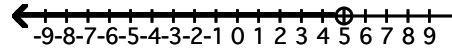
$(-\infty, 5]$

C)  $x \geq 5$



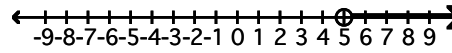
$[5, \infty)$

B)  $x < 5$



$(-\infty, 5)$

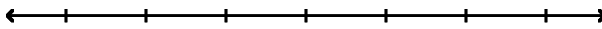
D)  $x > 5$



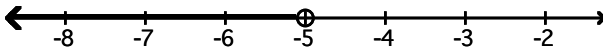
$(5, \infty)$

2)  $8x - 6 > 7x - 11$

2) \_\_\_\_\_

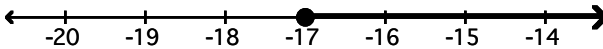


A)  $x < -5$



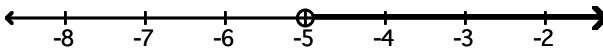
$(-\infty, -5)$

B)  $x \geq -17$



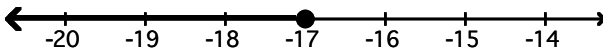
$[-17, \infty)$

C)  $x > -5$



$(-5, \infty)$

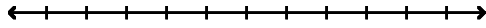
D)  $x \leq -17$



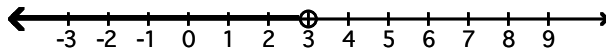
$(-\infty, -17]$

3)  $28x + 12 > 4(6x + 6)$

3) \_\_\_\_\_

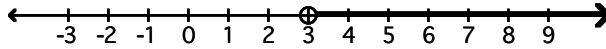


A)  $x < 3$



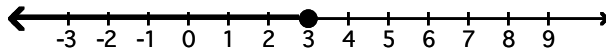
$(-\infty, 3)$

B)  $x > 3$



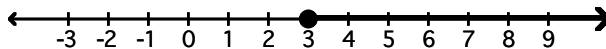
$(3, \infty)$

C)  $x \leq 3$



$(-\infty, 3]$

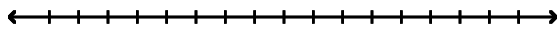
D)  $x \geq 3$



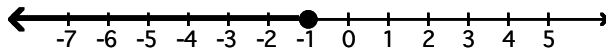
$[3, \infty)$

4)  $-35x + 25 \leq -5(6x - 6)$

4) \_\_\_\_\_

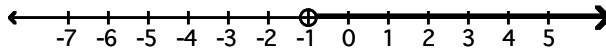


A)  $x \leq -1$



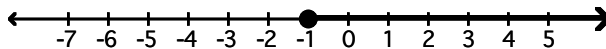
$(-\infty, -1]$

B)  $x > -1$



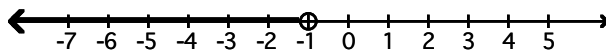
$(-1, \infty)$

C)  $x \geq -1$



$[-1, \infty)$

D)  $x < -1$



$(-\infty, -1)$

Answer Key

Testname: INEQUALITIES

- 1) B
- 2) C
- 3) B
- 4) C