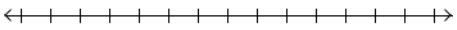
Solving Inequalities 1

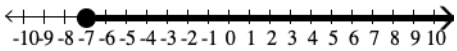
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

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

1) $-3x \geq 21$ 1) _____

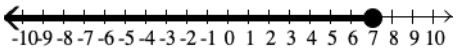


A) $x \geq -7$



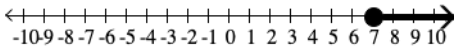
$[-7, \infty)$

B) $x \leq 7$



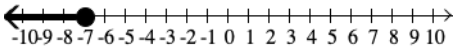
$(-\infty, 7]$

C) $x \geq 7$



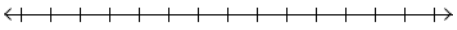
$[7, \infty)$

D) $x \leq -7$

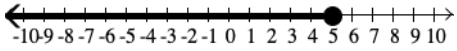


$(-\infty, -7]$

2) $-9x \geq 45$ 2) _____

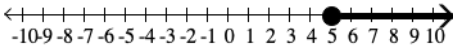


A) $x \leq 5$



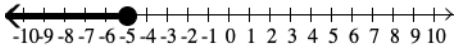
$(-\infty, 5]$

B) $x \geq 5$



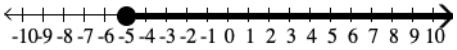
$[5, \infty)$

C) $x \leq -5$



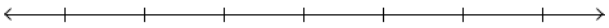
$(-\infty, -5]$

D) $x \geq -5$

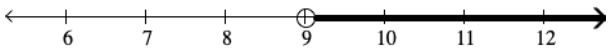


$[-5, \infty)$

3) $x - 12 < -3$ 3) _____

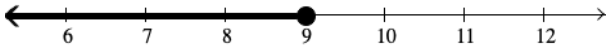


A) $x > 9$



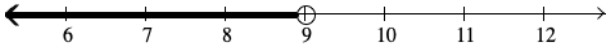
$(9, \infty)$

B) $x \leq 9$



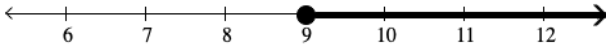
$(-\infty, 9]$

C) $x < 9$



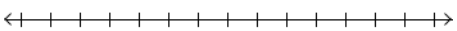
$(-\infty, 9)$

D) $x \geq 9$

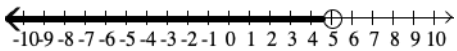


$[9, \infty)$

4) $3x + 7 < 22$ 4) _____

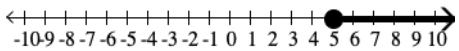


A) $x < 5$



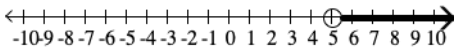
$(-\infty, 5)$

B) $x \geq 5$



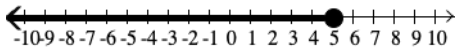
$[5, \infty)$

C) $x > 5$



$(5, \infty)$

D) $x \leq 5$



$(-\infty, 5]$

Answer Key
Testname: SOLVING INEQUALITIES 1

1) D
2) C
3) C
4) A