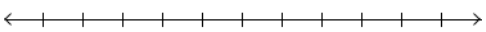
Solving Inequalities 3

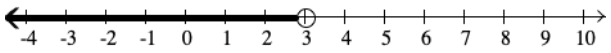
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

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

1) $28x + 12 > 4(6x + 6)$ 1) _____

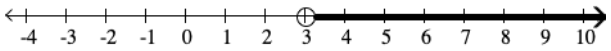


A) $x < 3$



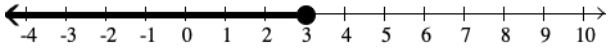
$(-\infty, 3)$

B) $x > 3$



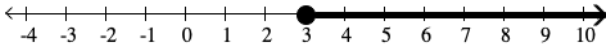
$(3, \infty)$

C) $x \leq 3$



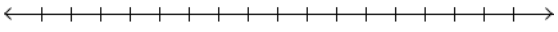
$(-\infty, 3]$

D) $x \geq 3$

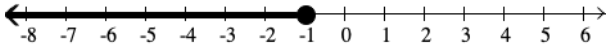


$[3, \infty)$

2) $-35x + 25 \leq -5(6x - 6)$ 2) _____

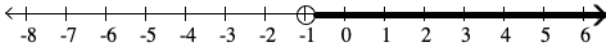


A) $x \leq -1$



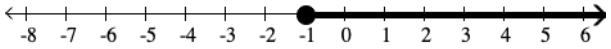
$(-\infty, -1]$

B) $x > -1$



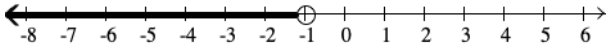
$(-1, \infty)$

C) $x \geq -1$



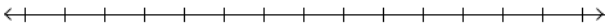
$[-1, \infty)$

D) $x < -1$

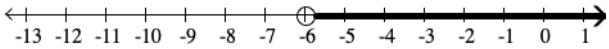


$(-\infty, -1)$

3) $-6(6x - 12) < -42x + 36$ 3) _____

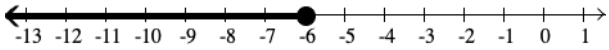


A) $x > -6$



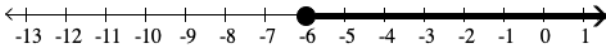
$(-6, \infty)$

B) $x \leq -6$



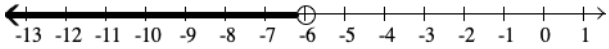
$(-\infty, -6]$

C) $x \geq -6$



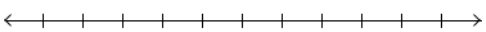
$[-6, \infty)$

D) $x < -6$



$(-\infty, -6)$

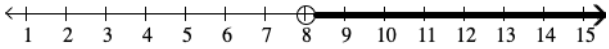
4) $14x + 16 > 2(6x + 16)$ 4) _____



A) $x \leq 8$

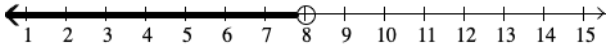
$(-\infty, 8]$

B) $x > 8$



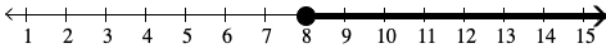
$(8, \infty)$

C) $x < 8$



$(-\infty, 8)$

D) $x \geq 8$



$[8, \infty)$

Answer Key
Testname: SOLVING INEQUALITIES 3

1) B
2) C
3) D
4) B