

# Inequalities and Their Graphs Bell Work

Check whether the given number is a solution of the inequality.

1.  $2x - 12 < 0$   $x = 6$

2.  $x^2 + 3 > 27$   $x = 5$

3.  $19 - 2x > 7$   $x = 5$

4.  $x(12 - x) < 50$   $x = 4$

Write each algebraic expression from the verbal expression.

5.  $y$  is greater than or equal to 6 times  $x$ .

6. 16 is greater than 32 plus  $x$ .

7. 9 is less than or equal to 21 minus  $x$ .

8.  $x$  is less than 11 minus  $y$ .

Graph each inequality.

9.  $y < 8$



10.  $y \geq -16$

