

3-1 Inequalities and Their Graphs

1. What is the inequality that represents the verbal expression?

- a. all real numbers p greater than or equal to 1.5
- b. The sum of t and 7 is less than -3
- c. The quotient of k and 11 is greater than or equal to -4

2. Which of the following numbers are a solution to $2x+1 > -3$?

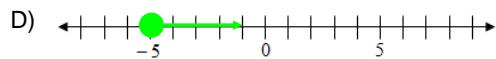
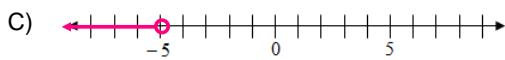
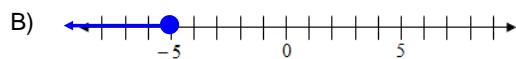
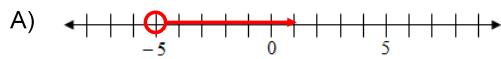
- a. -3
- b. -1
- c. 0
- d. -2

3. Define a variable and write an inequality to model each situation.

- a. A school classroom can hold at most 42 students.
- b. You know that you have at least \$225 in your bank account.
- c. You need bricks to complete a project at your home. You must spend under \$150 and the bricks cost \$2 each.

4. Match each inequality with its graph

i) $x < -5$ ii) $x > -5$ iii) $x \leq -5$ iv) $x \geq -5$



5. Write an verbal expression in your own words that goes with the inequality

$x \leq 15$

Book Work: p 168: 10, 11, 13, 17-20, 29, 30, 35, 37, 39, 40