

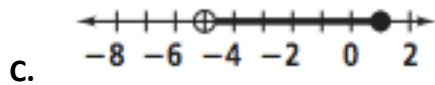
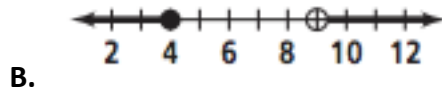
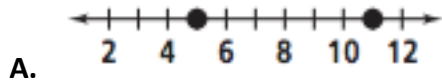
Name: _____
Algebra 1

Date: _____
Band: _____

Unit 3: Solving Inequalities

LT#1: Write, graph, and identify solutions of inequalities.

1. Write an inequality for the following graphs.



2. Which ordered pair is a solution of $y \leq -6x - 7$?

- A. $(0.5, -4)$
- B. $(2, -19)$
- C. $(-2, -5)$
- D. $(3, 11)$

3. Which is NOT a solution of $3x - 5 < 17$?

- A. -4
- B. 5
- C. 7
- D. 12

4. Which is a solution of $-8x + 5 \geq 11$?

- A. $-\frac{1}{2}$
- B. 3
- C. 0.25
- D. -1

LT#2: Use addition or subtraction to solve inequalities.

LT#3: Use multiplication or division to solve inequalities.

LT#4: Solve multi-step inequalities.

5. Solve each inequality.

A. $n + 4 < 6$

B. $3t + 3 \geq -12$

C. $2(3d + 1) > 20$

D. $2p \leq -8$

E. $5k + 6 > 5(k + 1)$

6. Suppose your office gives you \$200 to buy binders. Small binders cost \$7 each. Large binders cost \$8 each. Write the inequality that describes how many of each kind of binder you can buy.

LT#5: Solve and graph inequalities containing the word *and*.

LT#6: Solve and graph inequalities containing the word *or*.

7. Tiv is on a diet. She is supposed to eat at least 1500 but not more than 1800 calories per day. Before her last meal of the day, she had consumed 1150 calories. According to Tiv's diet plan, what number of calories may she consume at her last meal of the day?

8. Solve and graph $15c - 4 \leq 12c + 5$ on the number line.

LT#7: Solve equations and inequalities involving absolute value.

Solve each equation or inequality.

9. $|4a - 2| = 10$

10. $|9 - 3g| \leq 12$

11. $|x - 5| > 3$