

Algebra

Chapter 4 Snake Review

1.

Which numbers are solutions of the inequality $x > -5.2$

8 -11 -6 -5.2 0

2.

Solve the inequality and graph its solution.

$$\frac{x}{-8} < -10$$

3.

Solve the inequality and graph its solution.

$$-32 \geq 8 + 5n$$

4.

Solve the inequality.


$$-4x + 9 < 6x - 13$$

5.

Solve the inequality.

$$8x - 3(2x + 6) \geq 8$$

6.

Replace the  with the number that makes the inequalities equivalent.

$$-3a < \img alt="gray square" data-bbox="278 723 316 768"/>$$

$$a > -5$$

7.

Translate to an inequality for each.

- The van holds at most 7 people.
- Mary needs to work at least 7 hours today.
- Mary earns more than \$7 per hour.

8.

Write an inequality and solve.

A canoe rental company charges \$25.00 to rent the canoe and \$11.00 per day. Becky has at most \$110 to spend on the canoe. Write and solve an inequality that shows how many days she can rent the canoe. Show work for credit.

10.

Write a compound inequality for each.

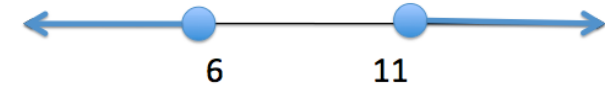
- all real numbers less than 4 and greater than 0
- all real numbers greater than or equal to 22 or less than 19
- all real numbers that are at least -3 and no more than 0

9.

a.



b.



11.

Solve the inequality and graph the solution.

$$-2 \leq 3a - 8 < 4$$

12.

Solve the inequality and graph the solution.

$$|-5x - 5| > 25$$