

Solving Inequalities

You must earn 6 points!

Solve the inequality. Graph the solution.

1

point

1. $n - 9 \geq 2$

2. $v + 10 \leq 14$

3. $x - 3 > 8$

4. $\frac{n}{3} \geq 12$

5. $\frac{b}{3} > 6$

6. $5v \geq 125$

Solve the word problem.

7. You can spend at least \$10 at the mall. You want to buy a book that costs \$6.75 and a cold drink. Write and solve an inequality to represent the amount of money you can spend on your cold drink.

2

points

8. Three friends decide to share the cost to rent an apartment equally. The apartments that they are considering cost at least \$1200 per month. Write and solve an inequality to represent each person's share of the rental cost.
9. The school auditorium can hold at most 480 people. There were 185 advance tickets sold for the school play. Write and solve an inequality to represent the number of people who can attend the play if all the people who bought advance tickets attend the play.
10. A wheelbarrow can carry up to 300 pounds of weight. A bag of soil weighs 20 pounds. Write and solve an inequality to represent the number of bags of soil the wheelbarrow can carry.

Reflecting Back

You must complete ALL 6 problems!

- 1. Multiply. Write the answer in simplest form.**

$$4\frac{3}{4} \cdot 3$$

- 2. Divide. Write the answer in simplest form.**

$$4\frac{2}{4} \div \frac{2}{5}$$

- 3. Divide.**

$$43.42 \div 2.6$$

- 4. Evaluate the expression when $p = 12$.**

$$\frac{96}{p}$$

- 5. Use the Distributive Property to simplify the expression.**

$$3(2y + 9)$$

- 6. Evaluate the expression.**

$$2^4 - 6(12 \div 6) + 6$$