Inequality Word Problems

Name_____Class_____

Directions: Translate each clue word or phrase into its mathematical meaning.

each	_____
reduced by	_____
is less than or equal to	_____
quotient	_____
at most	_____
difference	_____
is greater than	_____
of	_____
at least	_____

Examples:

Translate each written sentence into a mathematical inequality. Solve to find the number. Check your solution.

1. Sixteen is greater than a number plus negative five.

2. Thirteen subtracted from a number is less than negative two.

3. A number doubled is at most twenty.

PRACTICE:

Directions: Write an inequality for each sentence. Then simplify the inequality. Check your solution.

1. Fifteen plus a number is greater than 10.

2. Ten increased by a number is less than or equal to three.

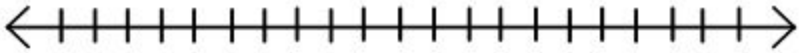
3. The difference of a number and 6 is at most -5.

4. Challenge: The sum of twice a number and 3 is no more than 7.

Translate each written sentence into a mathematical inequality. Graph your solution. Check your solution.

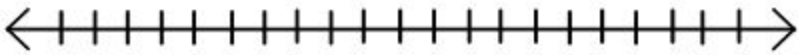
5. Mrs. Avink can run at most 5.5 miles per day. Write and graph an inequality to describe this statement.

Inequality: _____



6. The maximum amount of people the elevator at the hotel can hold is 14 people.

Inequality: _____



Directions: Choose the inequality that best models the sentence.

7. The car was going faster than 75 miles per hour.

A) $c > 75$ B) $c \leq 75$ C) $c < 75$ D) $c \geq 75$

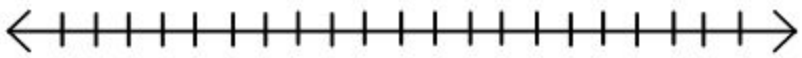
8. Chris is less than six feet tall.

A) $F \geq 6$ B) $F > 6$ C) $F < 6$ D) $F \leq 6$

9. Morgan's basketball team scored at least 53 points.

A) $t < 53$ B) $t > 53$ C) $t \leq 53$ D) $t \geq 53$

10. A baseball stadium can hold at most 5,225 people. The stadium has already admitted 4,957 people. How many more people can the stadium hold? Write an inequality to model this situation. Simplify, and graph your solution. Show all work.



Variable with label: _____

Inequality: _____ solution: _____