

PRACTICE QUIZ: Inequalities

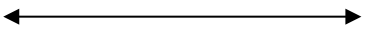
Name: _____

7th Grade Math

For 1 – 5, solve, check, and graph each inequality. **SHOW YOUR WORK!**

1) $-2 \leq -5 + d$

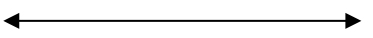
CHECK:

GRAPH: 

#1 answer: _____

2) $16 > -3.2h$

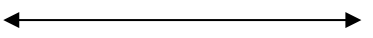
CHECK:

GRAPH: 

#2 answer: _____

3) $-\frac{4}{9} \leq \frac{2}{3}c$

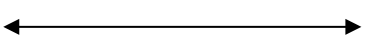
CHECK:

GRAPH: 

#3 answer: _____

4) $-4(h + 2) < -28$

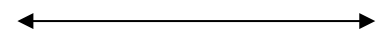
CHECK:

GRAPH: 

#4 answer: _____

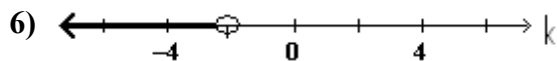
5) $-12(4 - m) \geq 8(4m - 14)$

CHECK:

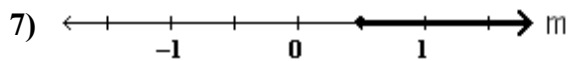
GRAPH: 

#5 answer: _____

For 6 & 7, create an inequality that represents each graph.



6) _____



7) _____

For 8 – 10, write an inequality and then solve for each situation.

- 8) Mr. Roy has \$2,000 saved for a vacation. His airplane ticket is \$637. Distinguish how much money he can spend for everything else while on vacation.

#8 inequality: _____

#8 answer: _____

- 9) Karly's Kar Wash charges \$4.50 per car at their car wash. Distinguish how many cars they have to wash to earn at least \$300.

#9 inequality: _____

#9 answer: _____

For 11 – 13, solve for the given variable.

10) $s = \frac{d}{t}$ for d

11) $3x + 7y = 2$ for y

#10 answer: _____

#11 answer: _____

- 12) The equation Pressure = Force ÷ Area ($P = \frac{F}{A}$) shows us that pressure and area are inversely related. Solve the equation $P = \frac{F}{A}$ for "F." Then evaluate the force needed to create a pressure of 200 Pa over an area of 0.5 m².

#12 equation: _____

#12 answer: _____