HONORS GEOMETRY OPENING DAY PACKET 2018-2019

H Geometry Name: _____ Opening Day Packet – No Calculator Section

- I) Multiple Choice
- 1) Solve the equation 4x 10 = -42a) -8 b) -13 c) $-\frac{1}{2}$ d) 8 2) Simplify $\sqrt{48a^2b^4}$ a) 4abb) $4ab^2\sqrt{3}$ c) $16ab\sqrt{3}$ d) $\sqrt{3}$ 3) Simplify $\frac{7}{\sqrt{5}}$. a) $\sqrt{\frac{7}{5}}$ b) $\frac{\sqrt{5}}{7}$ c) $\frac{7\sqrt{5}}{\sqrt{5}}$ d) $\frac{7\sqrt{5}}{5}$
- II) Short Answer Show your work for each of the following. No work, no credit. The process is as important as the answer.

4) Evaluate
$$\frac{x-3z}{y}$$
 if $x = 2$, $y = 8$ and $z = 6$.

5) Evaluate
$$5|a-5|-7|b+2|$$
 if $a = 4$ and $b = 3$.

- 6) Solve the inequalities, graph your solution on a number line:
 - a) $12 h \le 2h$ b) -4y > 24

7) What does your solution to #6a say in words?

- 8) Plot the point (-3, 2) on the grid provided for #9. Label the point A.
- 9) A) Graph the system of equations. Then determine whether the system has no solutions, one solution or infinitely many solutions. If the system has one solution, name it. (3 pts)

$$\begin{cases} y = -4x + 2\\ y = x - 3 \end{cases}$$

B) Use the substitution method to solve this system in order to verify your solution from part A.



10) Write four points that satisfy the equation. y = 2x + 1

11) Simplify the following:

a)
$$\sqrt{5} * \sqrt{15}$$
 b) $\frac{4\sqrt{48}}{2\sqrt{12}}$

c)
$$3\sqrt{8} - 9\sqrt{18} + 4\sqrt{32}$$
 d) $9\sqrt{5} - 7\sqrt{5}$

Honors Geometry Chapter 0 Quiz – C	Calculator Section	Nar	ne:	
I.) Multiple Choice)			
12)1.986 L =	mL			
a) 0.1986	b) 19.86	c) 198.6	d) 1986	
13)32 m =	yd			
a) 36.7	b) 33.4	c) 32.8	d) 35.2	
14) Solve: $-\frac{x}{6.6} + 3$	=-13			
a) 66	b) 105.6	с) -16	d) 67	

II.) Short Answer – Show your work for each of the following. No work, no credit. The process is as important as the answer.

15)Sasha bought 2 gallons of chocolate ice cream and 8 pints of toffee crunch ice cream for a party. How many quarts of ice cream does she have? (3 pts)

16)Select the measurement that is not the same value as the other three measurements. **Explain how you know.**

30 inches 2.5 yards 0.75 meters 75 centimeters
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18.Simplify:

a)
$$-2\sqrt{108}$$
 b) $\frac{\sqrt{5}}{2\sqrt{10}}$

19. Simplify:

 $\left(\sqrt{6}-4\right)\left(2\sqrt{2}+\sqrt{6}\right)$