

September 23, 2014

Tonight's Homework: Finish the graph
Homework Check Now: the unicycle sheet.

Purpose: How does mass relate to volume?

Warmup:



How long is this? 2.25

This has three significant figures.

Which digit is estimated in your measurement: the 5

Name _____

Warmup:

A pair of Chuck Taylors

Sentence

For every **TWO**
shoes there are

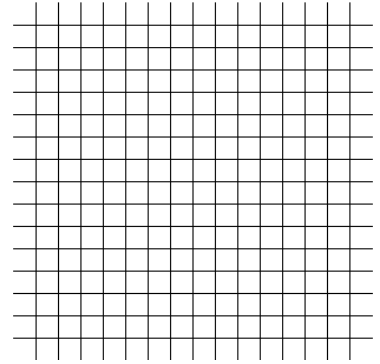
grommets.

Table

shoes	grommets
0	
2	
4	
8	
12	

In the graph do "Grommets versus Shoes". This language means to make Grommets the Y-axis and Shoes the X-axis.

Graph



The slope $\frac{\Delta y}{\Delta x} = \frac{\Delta \text{grommets}}{\Delta \text{shoes}} = \frac{y_2 - y_1}{x_2 - x_1} =$

Name _____ ✓

Warmup:

A pair of Chuck Taylors

Sentence	Table	Graph												
For every TWO shoes there are <u>36</u> grommets.	<table border="1"><thead><tr><th>shoes</th><th>grommets</th></tr></thead><tbody><tr><td>0</td><td>0</td></tr><tr><td>2</td><td>36</td></tr><tr><td>4</td><td>72</td></tr><tr><td>8</td><td>144</td></tr><tr><td>12</td><td></td></tr></tbody></table> <p>In the graph do "Grommets versus Shoes". This language means to make Grommets the Y-axis and Shoes the X-axis.</p>	shoes	grommets	0	0	2	36	4	72	8	144	12		
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$$\frac{\Delta y}{\Delta x} = \frac{144 - 36}{8 - 2} = \frac{108}{6} = 18$$

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Experiment

For aluminum, what is the mathematical relationship between mass and volume?

For iron, what is the mathematical relationship between mass and volume?

Equipment: graduated cylinders, water, electronic scale or balance, pieces of aluminum and iron

we did a lab today to measure the volume and mass of aluminum and iron