**PreAP Homework Wednesday 11/1/17**

*Read and solve each problem. Show your work for credit!*

Find the unit rate for each of the graphs and include the description (ex: 2 mi/h).

1.  2.

Unit Rate = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Unit Rate = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Find the rate of change (slope) from each table. Explain what the rate of change means in each problem situation (ex: 2 miles per hour). Also give the y-intercept (work backwards once you find a pattern).



1.  4.

Rate of Change = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Rate of Change = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

y-intercept = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ y-intercept = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Which line is steeper: a line with a rise of 13 and a run of 7 or roof with a rise of 8 and a run of 4? Explain your reasoning in complete sentences.

**PreAP Homework Wednesday 11/31**

*Read and solve each problem. Show your work for credit.*



1. Which bottle of shampoo shown at the right costs less per ounce? Explain.

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1. Damon created a table to represent how fast he can run. Complete the graph and determine whether the distance Damon runs is proportional to the number of seconds he runs. Explain.



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| --- | --- | --- | --- | --- |
| Time (s) | 1 | 2 | 3 | 4 |
| Distance (m) | 8 | 16 | 24 | 32 |

1. The table and graph show the amount of rainfall for 2 different days. Which day had a greater rate of change (greater rainfall per hour)? Give the slope and unit rate of each day and explain your answer.

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