

6A.1 Learning Opportunity

Problem Solving: Unit Rate



Name: _____

- 1) It took Nicholas 20 seconds to climb the 35 foot rock wall shown. What is Nicholas' unit rate in feet per second?



- 2) Claudia and Athena defended their base during an intense laser tag battle. The game lasted 15 minutes and their team won with a total score of 27,000 points. Express this as a unit rate.



- 3) Gabriel earned \$75 for tutoring for 5 hours. What is his hourly rate? How much would he expect to earn if he tutored 12 hours? Create a graph to display money earned versus hours tutored. Plot the data point given (5, 75) and the two you calculated (1, ?) and (12, ?).

- 4) Logan is baking a cake. The recipe calls for $1\frac{1}{2}$ cups of sugar and makes 12 serving. How much sugar is in a single serving?

How much sugar would Logan need to bake a much larger cake to serve 30 people?



- 5) Express $\frac{180 \text{ miles}}{8 \text{ gallons of gas}}$ as a unit rate. If this car has a 22 gallon gas tank, how far should the owner be able to drive on a full tank of gas?

- 6) If 4 donuts cost \$1.20, how much should 9 donuts cost?

