

February 2, 2012 Writing Algebraic Expressions and Multiplying Polynomials 8P4; 8P7; 8.EE.5; 8.EE.6; 8F3	
Warm Up	<i>Math's Mate Term 1 Sheet 3 questions 1-5</i>
Agenda	<p>Opening: <i>A rate is a ratio that compares <u>two</u> different kinds of numbers. Examples of rate include: (miles/hour, dollars per cup). So, a "rate of change," compares two different kinds of change.</i> Discuss homework focus on rates in the last three graphs</p> <p>Work Period: Example 3: Finding slope when given two points</p> <ol style="list-style-type: none"> 1. Have students label the coordinates (x_1, y_1) and (x_2, y_2). 2. Substitute the known values into the formula (using parentheses!) 3. Double check the substitution 4. Calculate the slope (numerator first, denominator second, then simplify the fraction) 5. Describe the line (increasing left to right, decreasing left to right, etc.) 6. Do the other problems (note, this may seem repetitive but each problem has a different combination of signs. One of the most common student errors is messing up the negatives). 7. Have students complete the you try 8. Go over the you try <p>P39 Finding a slope from a Table. Example 1 from the Algebra 1 book page 309 Identify the independent and the dependent variable Discuss slope as the ratio of change in the dependent variable "y" divided by the change in the independent variable "x"</p> <p>Closing: Independent Practice Have students share out and summarize what they learned today.</p>
HW	Both sides of P40 Finding slope from a Table/Finding slope from a graph
SWBAT *Students Will Be Able To...	Students will be able to write and evaluate/solve expressions and equations to represent given problems. 8P4 Create and use symbolic expressions and relate them to verbal, tabular, and graphical representations 8EE5 Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed. 8F3 Interpret the equation $y = mx + b$ as defining a linear function whose graph is a straight line; give examples of functions that are not linear. <i>For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points $(1, 1)$, $(2, 4)$ and $(3, 9)$, which are not on a straight line.</i>