

Name: _____ Date: _____ Period: _____

Unit 3: Expressions & Equations Review

1. Mike and Linda are huge movie fans. They both rent movies from the internet. Mike pays \$4.00 for each movie that he rents. Linda pays \$8.00 per month, and \$2.00 for each movie that she rents.

- a. Fill out tables that represent how much Mike and Linda could pay in a month for renting movies.
- b. Write an equation for each line based on the table.
- c. Graph both sets of data on one chart. Draw a line through each set of data.
- d. What is the slope of the line through Mike's bill? What is the slope of the line through Linda's bill?
- e. What does the slope of each line represent?
- f. How are the two lines different? What is the reason for this difference?
- g. Which is a better deal?

2. Mrs. Garcia has is having a party and is looking at two different bands to entertain her guests. The first performer, Justin Dwieber charges \$8 for every two guests. The second performer, Wrong Direction charges a flat rate of \$20 plus \$2 for every guest.

- a. Fill out tables that represents how much Justin Dwieber and Wrong Directions will cost Mrs. Garcia.
- b. Write an equation for each line based on the table.
- c. Graph both sets of data on one chart. Draw a line through each set of data.
- d. What is the slope of the line through Justin Dwieber's cost? What is the slope of the line through Wrong Directions' cost?
- e. What does the slope of each line represent?
- f. How are the two lines different? What is the reason for this difference?
- g. Which is a better deal?