Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date Due: \_\_\_\_\_\_\_\_\_\_ Per: \_\_\_\_

Finding Slope of a Line Methods Booklet

This project is the summative assessment for Unit 4 Standard #1. Your goal is to create a math booklet that will teach a student how to find the slope of a line from the variety of contexts we learned about in Unit 4. Your booklet should be created like a textbook or our class notes and include: instructions, examples – both in problem form and pictures, hints and tips, etc. This will be graded on a 4,3,2,1 Rubric.

Directions: Using 2 blank sheets of blank paper (white or colored) create the booklet. Fold them in half hamburger style and staple in two places to keep your pages together.

Front cover: must include your name, title, due date, teacher and period

Inside page 1: What is Slope? (Cut out the heading label and glue to top of page.)

* Create a definition of the math term slope.
* Provide examples in multiple forms (graph, table, context, etc)
* List anything you think a student needs to understand about the concept of slope.
* Refer to CW #1-5

Inside page 2: Finding Slope from a Graph (Cut out the heading label and glue to top of page)

* List the steps you would use to find the slope of a line from a graph.
* Provide examples and show how you would find the slope from your example.
* List any hints or helps that a student needs to watch for.
* Refer to CW #2

Inside page 3: Finding Slope from Two Points (Cut out the heading label and glue to top of page)

* List the steps you would use to find the slope of a line from two points.
* Provide examples and show how you would find the slope from your example.
* List any hints or helps that a student needs to watch for.
* Refer to CW #4

Inside page 4: Finding Slope from a Table (Cut out the heading label and glue to top of page)

* List the steps you would use to find the slope of a line from a table.
* Provide examples and show how you would find the slope from your example.
* List any hints or helps that a student needs to watch for.
* Refer to CW #5

Inside page 5: Types of Slope (Cut out the heading label and glue to top of page).

* Provide an example of each type of slope (positive, negative, zero, undefined).
* Show how you would find the slope from your example.
* List any hints or helps that a student needs to watch for.
* Extra Credit: Which slope is Mr. Carrillo’s favorite to go skiing on?
* Refer to CW #1-5

Inside page 6: Finding Slope in a Context (in Real Life) (Cut out the heading label and glue to top of page)

* Find a set of stairs at home. Take a picture or create a drawing on graph paper.
* Find the rise and run (use a measuring device) and label your measurements on the picture or drawing.
* Use the measurements to identify the slope of the stairs in centimeters.
* Answer the following questions: What do you notice? What do you wonder?

IMPORTANT REMINDERS

* Be clear in your steps and instructions. Use complete sentences and punctuation.
* \*\*\*Neatness counts. You will use this for review and studying as well as a quiz grade.
* Use multiple representations in your examples:
	+ When finding slope on a graph don’t use the same slope for each example.
	+ When using tables be sure to use both a vertical table and a horizontal table.

Finding Slope from a Table

Finding Slope from a Graph

Types of Slopes

Finding Slope from Two Points



Finding Slope from a Context – Real Life Situation

What is Slope?



