**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per.\_\_\_\_\_\_\_ Score:\_\_\_\_\_**

**U4 HW # 1** *Measuring the Slope of Stairs and Ramps*

1. Fill in the blanks
2. Define Slope in words. Slope =

3

2

1. In the picture to the right, the rise is\_\_\_\_\_\_\_\_\_ units,

 and the run is\_\_\_\_\_\_\_\_ units. Thus, the slope of

 this line is\_\_\_\_\_.

1. Suppose you want to make a skateboard ramp that is **not** as steep as the one show below. Write down two different slopes that you could use.
2.
3. Find the slope of the waterslide. Calculate it in two different ways.



1. Roadway signs such as the one to the right are used to warn drivers of an upcoming steep down grade that could lead to a dangerous situation. What is the grade, or slope, of the hill described on the sign? (Hint: Change the percent to a decimal and then change the decimal to a fraction)



### **Directions:** Write each fraction in its simplest form and circle whether the result is a positive or negative number.

|  |  |  |  |
| --- | --- | --- | --- |
| a. | b. | c.  | d. |
| Positive NumberNegative Number | Positive NumberNegative Number | Positive NumberNegative Number | Positive NumberNegative Number |
| e.  | f.  | g.  | h. |
| Positive NumberNegative Number | Positive NumberNegative Number | Positive NumberNegative Number | Positive NumberNegative Number |

### **Directions:** Solve the following equation for x and verify. Show all steps.

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