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

**U4 HW # 3** *Finding Slope from a Context*

1. The soccer team is going out for hot dogs. Greg’s Grill is having a special on hot dogs: four hot dogs for three dollars. Each hot dot costs the same amount of money.
   1. Complete the table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Hot Dogs | 1 |  |  | 16 |  | 28 | 40 |
| Total Cost |  | $3 | $9 |  | $18 |  |  |

|  |  |
| --- | --- |
| * 1. Label the graph axes and then graph the relationship. | * 1. What is the slope of the line?   2. Write a sentence with correct units that describes what the slope means.   3. What is the total cost of 60 hot dogs? How did you find your answer? |

1. The state fair costs $2 to get in plus $.50 per ticket to go on rides. Complete the following table, showing the cost for getting into the fair with additional tickets for rides.
   1. Complete the table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Tickets | 0 | 1 |  | 10 |  | 30 |  |
| Total Expense | $2 |  | $4.50 |  | $12 |  | $20 |

|  |  |
| --- | --- |
| * 1. Label the graph axes and then graph the relationship. | * 1. What is the slope of the line?   2. Write a sentence that describes what the slope of the line means in context with unit..   3. Why does the line not pass through 0? |

1. Excellent Bakers and Delicious Delights bakeries charge differently for sandwiches for business lunches.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| * 1. Examine the table. Describe the difference(s).  |  |  |  | | --- | --- | --- | | Sandwich Meals | Excellent Bakers | Delicious Delights | | 0 | $0 | $15 | | 1 | $20 | $30 | | 3 | $60 | $60 | | 5 | $100 | $90 |  * 1. Are both relationships proportional? Justify your answer.   2. Find the rate of change for each relationship.   Excellent:  Delicious : | * 1. Graph the two pay rates (two different lines). Label.      * 1. What is the slope of each line?   Excellent: Delicious:   * 1. What does the slope tell you about these two situations?   2. Write the coordinate pair for each of the y-intercepts. Explain the difference between the two points. |
| * 1. Is one situation better than the other? Why or why not? | |