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

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

1. Gourmet jellybeans cost $9 for 2 pounds.
2. Complete the table.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Pounds | .5 | 1 |  | 3 | 4 |  | 8 | 10 |  | 20 |
| Total Cost |  |  | $9 |  |  | $27 |  |  |  |  |

|  |  |
| --- | --- |
| 1. Graph and label the relationship. | 1. Write the rate of change of the line and describe what it means in this context. 2. What is the slope of the line (no decimals)? 3. Write an equation to find the cost for any amount of jellybeans. 4. Why is the data graphed only in the first quadrant? |

1. Kaelynn takes the same amount of time to solve each of the equations on her math homework. She can solve 10 equations in 8 minutes.
   1. Complete the table.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Minutes | 2 |  | 8 |  |  | 20 |  |
| Equations Solved |  | 5 |  | 15 |  |  | 30 |

|  |  |
| --- | --- |
| * 1. Graph and label the relationship. | * 1. Write the unit rate of the relationship and describe what it means in this context.   2. What is the slope of the line?   3. Besides the table and graph represented here is there a different method or representation we could use to find any number of equations solved in a number of minutes? |

1. Mr. Irving and Mrs. Hendrickson pay babysitters differently.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. Examine the table. Describe the difference.  |  |  |  | | --- | --- | --- | | Hours | Irving | Hendrickson | | 0 | $0 | $4 | | 1 | $9 | $12 | | 3 | $27 | $28 | | 5 | $45 | $44 |  1. Are both relationships proportional? Justify your answer. 2. Graph and label the two pay rates (two different lines). Circle the y-intercept of each line.      1. Write the rate of change and interpret its meaning in context.   Irving:  Hendrickson: | 1. What is the slope of each line?   Irving: Hendrickson:   1. Write the coordinate pair of each *y* –intercept and explain what they mean in context.   Irving:  Hendrickson:   1. Is one babysitting job better than the other? Why or why not? 2. Write the equation you would use to find the pay for any number of hours for each person?  * Irving: * Hendrickson: |