Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Partner’s Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Rate of Change (aka: Slope)

Directions: Decide who is going to do the problems in column A and who will do the problems in column B. Show your work in the designated area and write your final answer in the answer column. Your answer should match your partner’s. If your answers don’t match, work together to find your mistake. Note: There is more than one problem that won’t have matching answers. This problem is called the “Easter Egg.”

Find the slope between the given points.

|  |  |  |
| --- | --- | --- |
| Column A | Column B | Final Answer |
| 1. (2,3) and (4,7) | 1. (5,8) and (7, 12) |  |
| Work: | Work: |
| 2. (7,11) and (12, 8) | 2. (4, 9) and (14, 3) |  |
| Work: | Work: |
| 3. (-5, 9) and (14, 3) | 3. (1, 5) and (-18, 11) |  |
| Work: | Work: |
| 4. (2, 6) and (6, 7) | 4. (-2, 1) and (4,3) |  |
| Work: | Work: |
| 5. (-23, 10) and (-15, 4) | 5. (27, 9) and (11, 21) |  |
| Work: | Work: |

|  |  |  |
| --- | --- | --- |
| 6. (-4, -2) and (3, 8) | 6. (12, 9) and (14, 8) |  |
| Work: | Work: |
| 7. (12, 10) and (47, 10) | 7. (2, 5) and (-8, 5) |  |
| Work: | Work: |
| 8. (-3, -1) and (-9, -4) | 8. (-4, -10) and (-2, -1) |  |
| Work: | Work: |
| 9. (5, 3) and (2, 4) | 9. (7, 4) and (4, 3) |  |
| Work: | Work: |
| 10. Two points with a slope of ½. | 10. Two points with a slope of ½. |  |
| Work: | Work: |

Answer the following questions:

1. Which problems had positive slopes? Negative? No-slope?

2. Which slope was the steepest? How do you know?

3. Which slope was the least steep? How do you know?

4. Why do you think “rate of change” can also be called “slope?”