Name: _____   Date: _____

Chapter 3 Riddle

direct variation	initial value	line of best fit	linear relationship
linear trend	negative trend	partial variation	positive trend
rate of change	scatter plot	trend	*y*-intercept

Riddle: Why is Mr. Horizontal proposing to Mrs. Vertical over all the other lines?

To find out, identify each term described. Write the correct term in the blank provided. Copy the identified letters to the blank answer at the end of the puzzle.

1. A linear relationship starting from the origin, in which one quantity increases/decreases as another quantity increases/decreases respectively

12
☐☐☐☐☐☐   ☐☐☐☐☐☐☐☐☐

2. A line that passes through as many points as possible in a scatterplot to show a trend

☐☐☐☐   14
         ☐☐

15   17
☐☐☐☐   ☐☐☐

3. A linear relationship in which an increase in the independent variable results in an increase in the dependent variable

13
☐☐☐☐☐☐☐☐

6
☐☐☐☐☐

Name: _____   Date: _____

4. A pattern between two variables that follows a *linear-like* path when graphed

9
| | | | | | | | | | | |

5. The amount the dependent variable changes when the independent variable increases one unit

18   19
| | | | | | | |

2
| | | | | |

6. A linear relationship starting from a point on the *y*-axis, in which one quantity increases/decreases as another quantity increases/decreases

10
| | | | | | | |

20
| | | | | | | | | |

7. A direct relationship between two variables that, when graphed, follows a linear path exactly

| | | | | | |

5   7
| | | | | | | | | | | | |

8. A linear relationship in which an increase in the independent variable results in a decrease in the dependent variable
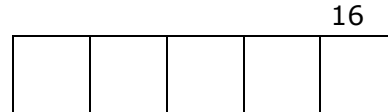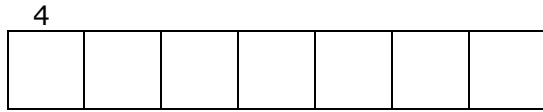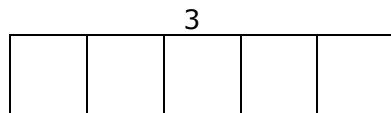
21   11
| | | | | | | | | | | | | |

9. The value of the dependent variable when the independent variable has a value of zero

4
☐☐☐☐☐☐☐   16
☐☐☐☐☐

10. The direction in which values in a data set tend to move

3
☐☐☐☐☐

11. The point at which a graph crosses the *y*-axis

8
☐☐ – ☐☐☐☐☐☐☐☐☐

12. A graph that shows the relationship between two variables

1
☐☐☐☐☐☐☐   ☐☐☐☐
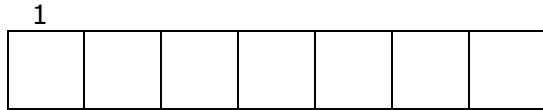
Riddle Answer:

___ ___ ___   ___ ___   ___ ___ ___   ___ ___ ___ ___
 1   2   3   4   5   6   7   8   9   10 11 12

___ ___   ___ ___ ___ ___   ___ ___ ___
13 14   15 16 17 18   19 20 21