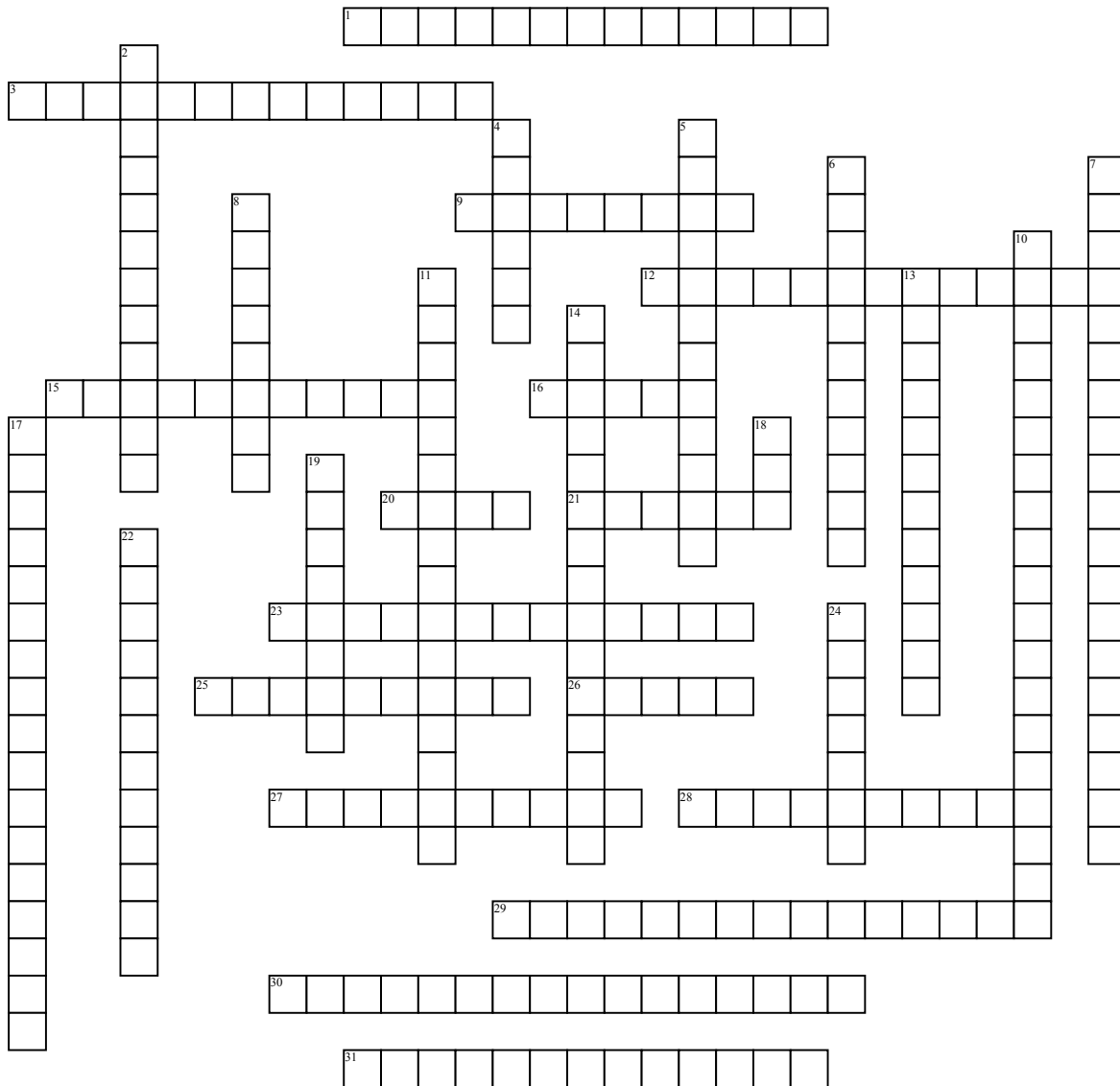# Chapter 5 Modeling Linear Relations with Graphs

Across

1. The slope of this of this line is undefined

3. A line sloping downward from left to right

9. $25 per ticket is an example of a _____

12. The slope of this line will always be negative

15. This indicates the position of a plotted point on a graph

16. A diagram that represents data or values in a organized way

20. The vertical distance between two points

21. Where the x- axis and y- axis intercept, plotted on coordinates (0,0)

23. Used to record the coordinates of points in a relation

25. Also known as a curved line that is not straight when plotted on a graph

26. _____=Rise over Run

27. To find this let y be equal to zero

28. In the formula y= mx+b this word is also known as the letter 'b'

29. On a graph if the line passes through the origin then it is a _____

30. This is shown in y=mx+b form

31. A line sloping upward from left to right

Down

2. A cost that can vary

4. Also known as a straight line when plotted on a graph

5. An example of this is change in distance vs change in time

6. When the line on the graph is going upwards

7. Let x represent the number of people attending the semi-formal, this is an example of a _____

8. 3x + 3 = 5 +x is an example of an _____

10. Number that relates two variables that are directly proportional or inversely proportional to one another

11. Differences between consecutive y-values in tables of values with evenly spaced x-values.

13. This joins two points together

14. The slope of this line is equal to zero

17. In the formula y=mx the letter y is the _____

18. The horizontal distance between two points

19. In the expression 5x + 7 x is the _____

22. If it costs $30.00 plus $5.00/h to rent a bike in Niagara Falls, $30.00 is considered the _____

24. The greater the slope the _____ the line