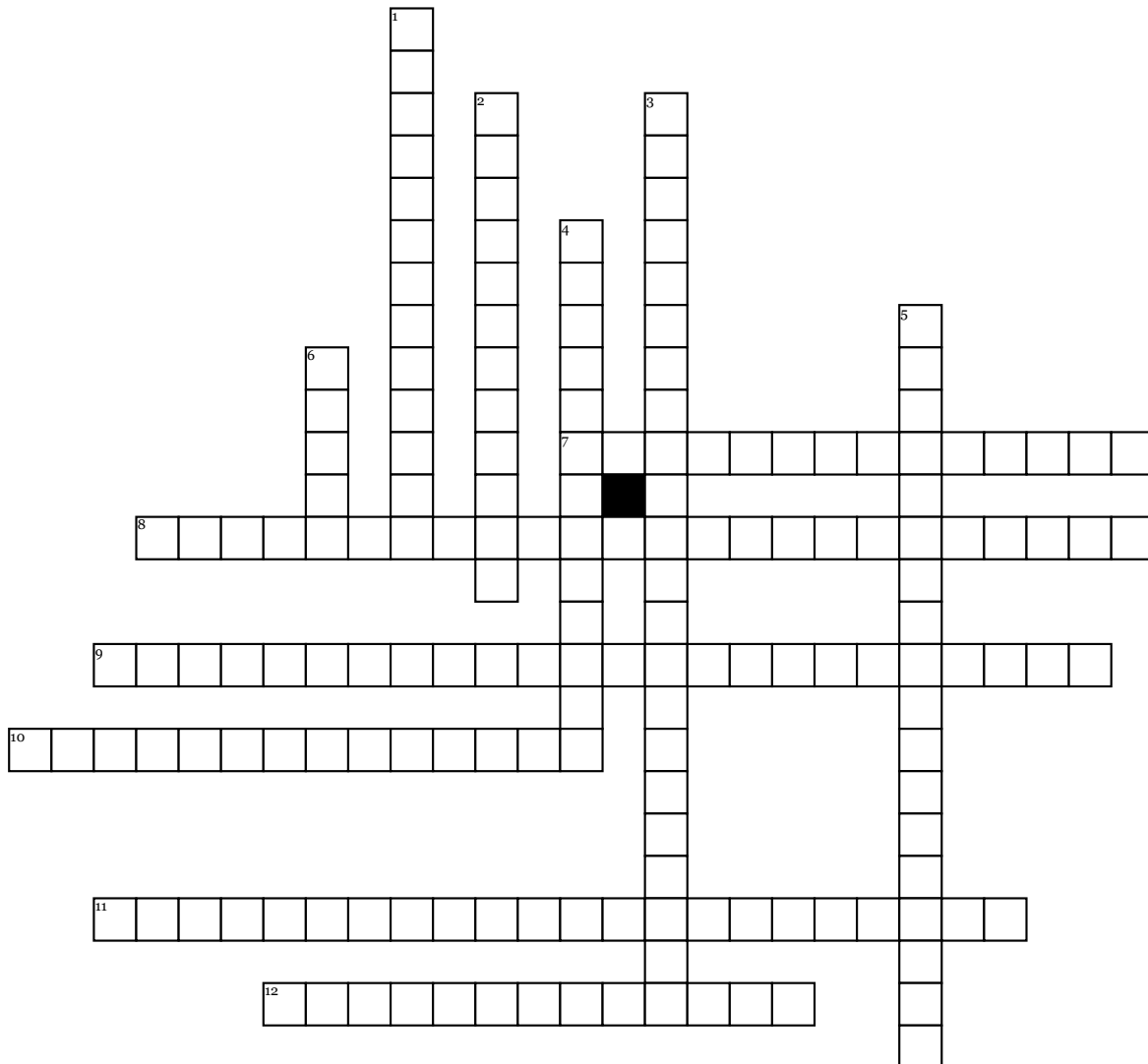


Chapter 4/Group 6



Across

7. the equation for a line that represents a linear function of the form $y - y_1 = m(x - x_1)$

8. a function with a positive slope: If $f(x) = mx + b$, then $m > 0$.

9. a function with a negative slope: If $f(x) = mx + b$, then $m < 0$. decreasing linear

10. when a model no longer applies after a certain point

11. a statistical technique for fitting a line to data in a way that minimizes the differences between the line and data values

12. predicting a value inside the domain and range of the data

Down

1. two or more lines with the same slope

2. a line defined by $x = a$, where a is a real number. The slope of a vertical line is undefined. vertical

3. a value, r , between -1 and 1 that indicates the degree of linear correlation of variables, or how closely a regression line fits a data set

4. predicting a value outside the domain and range of the data.

5. two lines that intersect at right angles and have slopes that are negative reciprocals of each other

6. the ratio of the change in output values to the change in input values; a measure of the steepness of a line