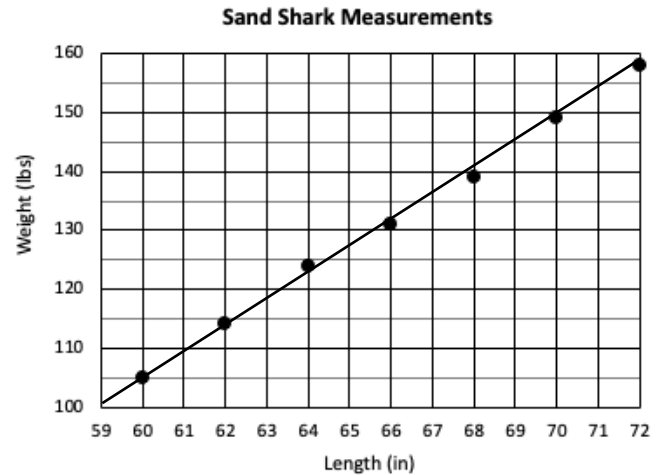




### Sand Sharks:

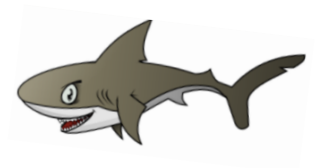
Lengths and corresponding ideal weights of sand sharks were collected and the data is plotted below.

A line of best fit is already drawn. Pick 2 points on the line, and write the equation for the line of best fit in slope-intercept form ( $y = mx + b$ ).



What is the slope of your line? What does this number tell us about the length and ideal weight for a sand shark?

The following questions can be answered using your equation.

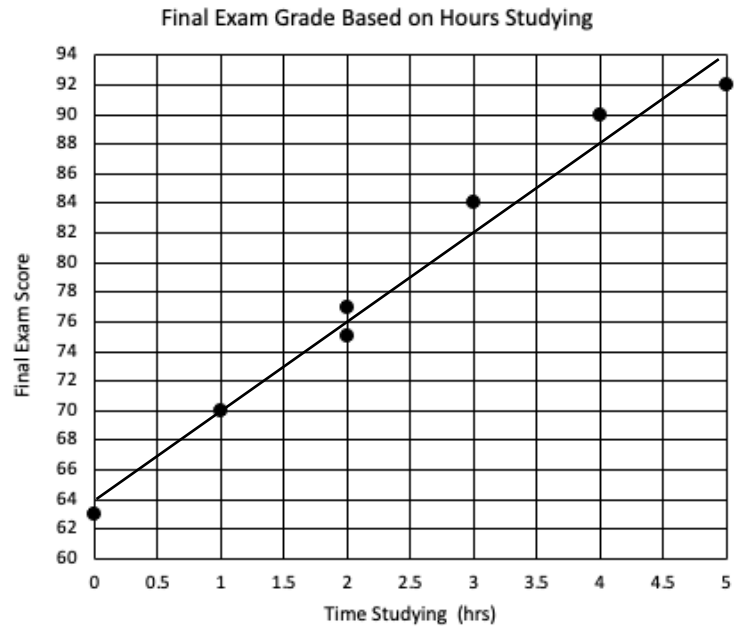


1. Predict the weight of a sand shark whose length is 75 inches.
  
  
  
  
  
  
  
  
  
  
2. If a shark weighs 150 pounds, how long would we expect it to be?

### Exam Grade:

Graphed below are number of hours studied and the final exam grade earned.

A line of best fit is already drawn. Pick 2 points on the line, and write the equation for the line of best fit in slope-intercept form ( $y = mx + b$ ).



What is the slope of your line? What does this number tell us about time spent studying and a final exam score?

The following questions can be answered using your equation.

1. Predict the exam grade of a student who studied for 6 hours.

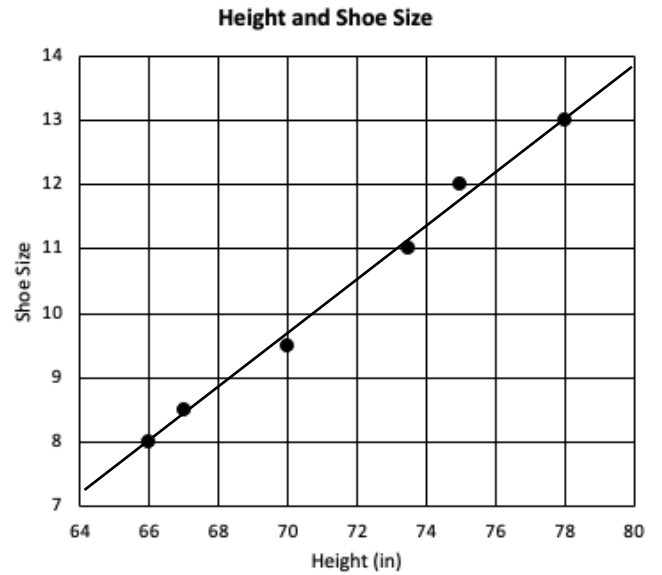


2. How many hours should a student study if they want to get an 80 on the test?

### Height and Shoe Size:

The graph below shows the height and shoe sizes of six randomly selected men.

A line of best fit is already drawn. Pick 2 points on the line, and write the equation for the line of best fit in slope-intercept form ( $y = mx + b$ ).



What is the slope of your line? What does this number tell us about a man's height and shoe size?

The following questions can be answered using your equation.

1. If a man has a shoe size of 9, what would be his predicted height?
  
  
  
  
  
  
  
  
  
  
2. If a man is 6 feet tall, what would we predict his shoe size to be?

