Name	Period	Date	
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Using A Line of Best Fit to Make Estimates

Mini Golf:

Jamal and Alisha played a round of miniature golf. They made some notes of the time it took them to play. Their data are plotted in the graph 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 playing mini golf?

The following questions can be answered using your equation.

1. Estimate the time it took Jamal and Alisha to play the first 7 holes.

2. What hole would you estimate them to be on if they played for 35 minutes?



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.





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?

