

Algebra



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Line of Best Fit

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When data is displayed with a **scatter plot**, it is often useful to attempt to represent that data with the equation of a straight line for purposes of predicting values that may not be displayed on the plot.

Such a straight line is called the "**line of best fit**."

It may also be called a "trend" line.

A **line of best fit** is a straight line that best represents the data on a scatter plot. This line may pass through some of the points, none of the points, or all of the points.

Materials for examining line of best fit: graph paper and a strand of spaghetti

Is there a relationship between the fat grams and the total calories in fast food?



Sandwich	Total Fat (g)	Total Calories
Hamburger	9	260
Cheeseburger	13	320
Quarter Pounder	21	420
Quarter Pounder with Cheese	30	530
Big Mac	31	560
Arch Sandwich Special	31	550
Arch Special with Bacon	34	590
Crispy Chicken	25	500
Fish Fillet	28	560
Grilled Chicken	20	440
Grilled Chicken Light	5	300