

The table shows the weight of an alligator at various times during a feeding trial.

Weeks	0	9	18	27	34	43	49
Weight in pounds	6	8.6	10	13.6	15	17.2	19.8

1. Use your calculator to look at the graph of the data. Give the window.
2. Write the equation for the line of best fit for the data.
3. Determine what the rate of change means in the context of the problem.
4. Determine what the y-intercept means in the context of the problem.
5. Give the correlation value, r , from the calculator.
6. What does the value of r tell you about the weeks and the weight of the alligator.
7. Use the equation to determine the weight of the alligator after 5 weeks.
8. Use the equation to determine how many weeks it takes for the alligator to weigh 30 pounds.

The table shows the cost of visiting a working ranch for one day and night for different numbers of people.

Number of People	4	7	8	10	13
Cost (dollars)	250	380	450	580	650

1. Use your calculator to look at the graph of the data. Give the window.
2. Write the equation for the line of best fit for the data.
3. Determine what the rate of change means in the context of the problem.
4. Determine what the y-intercept means in the context of the problem.
5. Give the correlation value, r , from the calculator.
6. What does the value of r tell you about the number of people and the cost.
5. Use the equation to determine the cost for 5 people.
6. Use the equation to determine how many people are visiting if the cost is \$500.