

Linear Model Circle Lab

1. Measure in centimeters the diameter and the circumference of at least ten different circles. (Choose some large and some small circles such as dinner plates, bottle caps, etc.)
2. Organize your results in a data table.
3. Plot the points with the diameter as the independent variable. Remember to label your graph.
4. Draw the line of best fit and find its rate of change.
5. Using the line of best fit, write an equation for the circumference vs. diameter.
6. Explain in words what the equation means.
7. Use your equation to make a prediction.