

Mathematical Modeling Worksheet

Charlie has just developed the self-contained tabletop taffy factory! Each kit contains a taffy factory, 20 pounds of sugar, and an Oompa-Loompa. Now he has to figure out how much to charge for it. Here are the sales he managed in his London test markets:

Price (£)	300	350	400	450	500
Sales per week	103	89	75	55	48

1. Plot the data on the axes below and draw a line of best fit.



2. Use the line of best fit you drew in problem 1 to develop a mathematical model for the number of units sold per week at a given price. At what price will people stop buying taffy factories?

