

Table of Market Research Data on Rental Demand
For Adult Bikes

Hourly Price	Number of hourly Rentals per day
\$6.00	225
\$7.00	200
\$8.00	165
\$9.00	120

Task 1

Step 1: On graph paper, plot the points for adult bikes.

Step 2: Using a “line of best fit”, find the equation of the line. Pick two points that seem best. Write line in the $y = mx + b$ form, but use the variables $d = mp + b$ (d is for demand and p is for price)

Step 3: Plot the line on the graph paper.

Task 2

1. Record your equation from Task 1. _____

2. Use this equation to calculate the demand, d , at rental prices of \$7.75 and \$10.00 per day.

At $p = \$7.75$, $d =$ _____

At $p = \$10.00$, $d =$ _____

3. Use the values of d from above to find the revenue at the same prices. The equation for revenue (R) is $R = \text{price} \cdot \text{demand}$, or $R = p \cdot d$.

So at $p = 7.75$, $R =$ _____

At $p = 10.00$, $R =$ _____

