

The following table shows the results of the regression analysis for the dependent variable "Sales" (in millions of dollars) and the independent variables "Advertising" (in millions of dollars) and "Price" (in dollars). The regression equation is:

$$\text{Sales} = 2.5 \text{ Advertising} - 0.0001 \text{ Price} + 1.2$$

The coefficient for Advertising is 2.5, indicating that for every additional million dollars spent on advertising, sales increase by 2.5 million dollars, holding price constant. The coefficient for Price is -0.0001, indicating that for every additional dollar in price, sales decrease by 0.0001 million dollars, holding advertising constant. The intercept is 1.2, representing the expected sales when both advertising and price are zero.

The R-squared value is 0.85, indicating that 85% of the variation in sales is explained by the model. The F-statistic is 15.2, and the p-value is 0.0001, indicating that the model is statistically significant. The t-statistic for Advertising is 12.5, and the t-statistic for Price is -1.5, indicating that Advertising is a significant predictor of sales, while Price is not.