ZiloAcademy

✨ Grade 10 Maths — Bivariate Data, Correlation & Line of Best Fit ✨

Name: Demo **Date:** 26/11/2026

1. For the variables "temperature" and "ice creams sold", which is the explanatory (independent) variable? (type it exactly as written)

2. The correlation coefficient is r = -0.07. Describe the correlation. (e.g. strong positive, moderate negative, weak positive, or none)

3. The correlation coefficient is r = -0.94. Describe the correlation. (e.g. strong positive, moderate negative, weak positive, or none)

4. Data was collected for x between 19 and 48. Is predicting y at x = 25 interpolation or extrapolation?

5. The correlation coefficient is r = -0.41. Describe the correlation. (e.g. strong positive, moderate negative, weak positive, or none)

6. The correlation coefficient is r = -0.37. Describe the correlation. (e.g. strong positive, moderate negative, weak positive, or none)

7. Data was collected for x between 19 and 47. Is predicting y at x = 64 interpolation or extrapolation?

8. The correlation coefficient is r = 0.08. Describe the correlation. (e.g. strong positive, moderate negative, weak positive, or none)

9. For the variables "its value" and "age of a car", which is the explanatory (independent) variable? (type it exactly as written)

10. A line of best fit is y = 8x + 29. Predict y when x = 12.