ZiloAcademy

✨ Grade 9 Maths — Scatter Plots & Correlation ✨

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

1. As someone's birth month increases, their maths score tends to change randomly. What type of correlation does this describe? (positive / negative / no correlation)

2. As a phone's screen brightness decreases, its battery tends to last longer. What type of correlation does this describe? (positive / negative / no correlation)

3. What type of correlation does each describe (positive / negative / no correlation)? (Separate your two answers with a comma.) 1) As a car's age increases, its value tends to decrease 2) As a runner's age increases well past their peak years, their top speed tends to decrease

4. As a company's advertising budget increases, their brand recognition tends to increase. What type of correlation does this describe? (positive / negative / no correlation)

5. As the price of a product increases, the number sold tends to decrease. What type of correlation does this describe? (positive / negative / no correlation)

6. What type of correlation does each describe (positive / negative / no correlation)? (Separate your two answers with a comma.) 1) As altitude increases, air temperature tends to decrease 2) As the number of years of piano practice increases, performance skill tends to increase

7. What type of correlation does each describe (positive / negative / no correlation)? (Separate your two answers with a comma.) 1) As temperature increases, hot chocolate sales tend to decrease 2) As the outdoor temperature drops, heating bills tend to increase

8. What type of correlation does each describe (positive / negative / no correlation)? (Separate your two answers with a comma.) 1) As a student's locker number increases, their science grade tends to change randomly 2) As the number of hours spent exercising increases, resting heart rate tends to decrease

9. As a plant gets more sunlight each day, its growth tends to increase. What type of correlation does this describe? (positive / negative / no correlation)

10

What type of correlation does each describe (positive / negative / no correlation)? (Separate your two answers with a comma.) 1) As a person's favourite season changes, their mathematics score tends to change randomly 2) As a student's shoe colour changes, their spelling score tends to change randomly