ZiloAcademy

✨ Grade 7 Maths — Lines & Graphs ✨

Name: Demo Grade 7 **Date:** 26/11/2026

1. A graph plots these values over time: 30, 27, 24, 21. Is the trend increasing, decreasing, or constant?

2. What is the gradient of the line through (6, 13) and (8, 27)?

3. A graph plots these values over time: 29, 29, 29, 29. Is the trend increasing, decreasing, or constant?

4. What is the gradient of the line through (5, 12) and (9, 44)?

5. What is the gradient of the line through (8, 8) and (9, 14)?

6. A line has the equation y = 7x + 13. What is its y-intercept?

7. A plan increases steadily each day: Monday 10 minutes, Tuesday 20 minutes, Wednesday 40 minutes, Thursday 80 minutes. Each day's time is a constant MULTIPLE of the previous day's time, not a fixed number of minutes more. What is that multiple?

8. A line has the equation $y = 3x - 5$. At what x-value does the line cross the x-axis ($y = 0$)?

9. A plan increases steadily each day: Monday 20 minutes, Tuesday 40 minutes, Wednesday 80 minutes, Thursday 160 minutes. Each day's time is a constant MULTIPLE of the previous day's time, not a fixed number of minutes more. What is that multiple?

10. A line graph shows temperature over 5 hours: hour 1 = 27°, hour 2 = 32°, hour 3 = 37°, hour 4 = 42°, hour 5 = 47°. What was the temperature at hour 2?