CONTINUING SEQUENCES

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

MASTER QUESTIONS



M1. A theatre has seats arranged in rows where each row has 4 more seats than the previous row. If the first row has 12 seats, how many seats are in the 8th row?

- M2. A staircase has steps that increase in height by 2cm each step. If the first step is 15cm high, what is the height of the 10th step?
- M3. A savings account gains £5 more interest each month than the previous month. If the first month's interest was £20, what will be the total interest after 6 months?
- M4. A plant grows 3cm taller each week. If it was 25cm tall at the start of the experiment, how many weeks will it take to reach 46cm?
- M5. A train's speed increases by 8km/h every minute after departure. If it starts at 30km/h, what will its speed be after 5 minutes?
- M6. A company's profits decrease by £2000 each quarter. If the profit was £50,000 in Q1, what will be the profit in Q4?
- M7. A temperature drops by 2°C every hour. If it's 18°C now, what will the temperature be in 6 hours?
- M8. A runner improves her time by 3 seconds each race. If her first race time was 65 seconds, what will her time be in the 7th race?
- M9. A building's floors are numbered with the ground floor as 0. Each floor above is 3m higher than the one below. How high is the 12th floor?
- M10. A car's value depreciates by £1500 each year. If it was bought for £18,000, what will its value be after 5 years?