11+ Practice Test Answers
11+ Maths Test 49

Question	Answer	Explanation	Marks
1	50 litres	The correct answer is 50 litres. A typical car fuel tank has a capacity between 45 and 65 litres. 50 litres is a reasonable estimate within this range. 5 litres is far too small for a car's fuel tank, as this would only allow for a very short driving distance. 500 litres and 5 000 litres are both much too large. These capacities are more suitable for large trucks or industrial storage tanks, not a standard car.	1
2	11 weeks	To find out how many more weeks Amelia needs to save, we first need to calculate how much more money she needs to buy the book. The book costs £28, and Amelia already has £6 saved. £28 - £6 = £22 So, Amelia needs to save an additional £22. Amelia receives £2 pocket money each week. To find the number of weeks needed, we divide the additional amount needed by the weekly pocket money: £22 ÷ £2 = 11 weeks Therefore, it will take Amelia 11 more weeks to save enough money to buy the book.	1
3	Perimeter	The perimeter of a square is the distance around its edge, which is the sum of the lengths of all four sides. Since a square has four equal sides, the perimeter can be calculated by multiplying the length of one side by 4. For example, if the length of one side of a square is 5 cm, the perimeter would be: 5 cm × 4 = 20 cm. The diagonal is a line segment that connects opposite corners of the square, the area is the space inside the square, and the volume is a measure of three-dimensional space, which does not apply to a two-dimensional shape like a square. Therefore, the correct answer is 'Perimeter'.	1
4	09:15 and 13:52	To solve this problem, we need to add the duration of the journey (4 hours and 37 minutes) to the departure time to find the correct arrival time. Let's check each option: 1. 09:15 + 4 hours and 37 minutes = 13:52 (correct) 2. 10:30 + 4 hours and 37 minutes = 15:07 (incorrect) 3. 11:45 + 4 hours and 37 minutes = 16:22 (incorrect) 4. 12:20 + 4 hours and 37 minutes = 16:57 (incorrect) Therefore, the correct answer is 09:15 and 13:52.	1

5	547.56	To find the total cost of the trip, we need to multiply the number of students by the cost per student. Number of students: 234 Cost per student: £2.34 234 × 2.34 = 547.56 Therefore, the total cost of the trip is £547.56.	1
6	30 cm	To find the width of the shipping container, we need to use the formula for the volume of a rectangular prism: Volume = length × width × height We know the volume is 67,500 cm^3, the length is 75 cm, and the height is 30 cm. Let's substitute these values into the formula: 67,500 = 75 × width × 30 To solve for the width, we divide both sides by (75 × 30): 67,500 ÷ (75 × 30) = width 67,500 ÷ 2,250 = width 30 = width Therefore, the width of the shipping container is 30 cm.	1
7	18 cm	The most likely length of a standard pencil is 18 cm. A length of 1.8 m would be far too long for a pencil, as this is equivalent to 180 cm. Most pencils are much shorter than this. Similarly, 1.8 km is an extremely large length, equal to 1,800 m or 180,000 cm. This is an unrealistic size for a pencil. Likewise, 1 850 mm is far too long, it is equivalent to 185 cm.	1
8	0.75 kg	The recipe states that 250 grams of flour are needed for 48 cookies. To find the amount of flour needed for 144 cookies, we can set up a proportion: 48 cookies / 250 grams = 144 cookies / x grams Cross-multiplying, we get: 48x = 250 × 144 48x = 36,000 x = 36,000 / 48 x = 750 grams Since the question asks for the answer in kilograms, we need to convert 750 grams to kilograms. There are 1,000 grams in 1 kilogram, so: 750 grams = 750 / 1,000 kilograms = 0.75 kilograms Therefore, approximately 0.75 kilograms of flour will be needed to make 144 cookies.	1

9	£9.15	To find out how much money Liam has left, we need to add up all the expenses and subtract the total from the initial amount he had. Expenses: Decorations: £12.50 Cake: £18.75 Party favours: £9.60 Total expenses: £12.50 + £18.75 + £9.60 = £40.85 Initial amount: £50.00 Total expenses: £40.85 Remaining money: £50.00 - £40.85 = £9.15 Therefore, Liam has £9.15 left after purchasing the items for his friend's birthday party.	1
10	Isosceles Trapezium	An isosceles trapezium is the correct answer. It has one pair of parallel sides (the parallel sides are of different lengths, otherwise it would be a parallelogram). It also has exactly two lines of symmetry. These pass through the midpoints of the parallel sides and are perpendicular to them. A square has four lines of symmetry and two pairs of parallel sides. A rectangle has two lines of symmetry and two pairs of parallel sides. A rhombus has two lines of symmetry and two pairs of parallel sides. Therefore, the isosceles trapezium is the only shape that satisfies both conditions given in the question.	1