11+ Practice Test Answers

11+ Maths Test 33

Question	Answer	Explanation	Marks
1	60 points	Riverside FC played a total of 30 matches. They won 18 matches, and each win is worth 3 points. So, for the wins, they earned: 18 × 3 = 54 points They drew 6 matches, and each draw is worth 1 point. So, for the draws, they earned: 6 × 1 = 6 points To calculate the total points, we add the points from wins and draws: 54 + 6 = 60 points Therefore, Riverside FC earned a total of 60 points.	1
2	£18.55	To find the total amount of money raised, we need to add the amounts raised by Liam and Sophie. Liam raised £12.75 and Sophie raised £5.80. 12.75 + 5.80 = 18.55 When adding decimal numbers, it's important to line up the decimal points before performing the addition. Therefore, the total amount of money raised by Liam and Sophie is £18.55.	1
3	12th August	The original date for the school summer fair was 12th July. The fair was postponed by 4 weeks and 3 days: 4 weeks after 12th July is 9th August (12th July + 28 days = 9th August). 3 days after 9th August is the 12th August. Therefore, the rescheduled summer fair will take place on 12th August.	1
4	240,000 millilitres	Olivia's car has a fuel tank capacity of 60 litres, and she filled it up 4 times last week. To find the total amount of fuel in millilitres, we first need to convert litres to millilitres: 1 litre = 1,000 millilitres 60 litres = 60 × 1,000 = 60,000 millilitres So, each time Olivia filled up her car, she put in 60,000 millilitres of fuel. Since she filled up her car 4 times, we multiply the amount of fuel per fill-up by 4: 60,000 millilitres × 4 = 240,000 millilitres Therefore, Olivia put a total of 240,000 millilitres of fuel in her car last week.	1

5	4.35 kg	First, we need to convert the units so they are the same. The bag of rice is in kilograms (kg), and the amount used for dinner is in grams (g). 1 kg = 1 000 g 5 kg = 5 × 1 000 g = 5 000 g Now we can subtract the amount used for dinner from the total amount in the bag: 5 000 g - 650 g = 4 350 g Finally, we convert the answer back to kilograms: 4 350 g = 4.35 kg Therefore, the amount of rice left in the bag is 4.35 kg.	1
6	58 200 mm	To convert kilometres to millimetres, we need to multiply the number of kilometres by 1,000,000 (as there are 1,000,000 millimetres in a kilometre). 0.582 km = 0.582 × 1,000,000 mm 0.582 km = 58,200 mm Therefore, 0.582 kilometres is equivalent to 58,200 millimetres.	1
7	12 + 2.50r	To find the total cost for a person who goes on r rides, we need to consider two parts: the admission fee and the cost of the rides. The admission fee is a fixed cost of £12, which everyone must pay regardless of the number of rides they go on. The cost of the rides depends on the number of rides the person goes on. Each ride costs £2.50, so for r rides, the total cost of rides would be 2.50 × r, or 2.50r. To get the total cost, we add the admission fee and the cost of the rides: 12 + 2.50r. Therefore, the correct expression for the total cost, in pounds, for a person who goes on r rides is 12 + 2.50r.	1
8	85°	In a triangle, the sum of all three angles is always 180°. We know that angle A is 40° and angle B is 55°. To find angle C, we can subtract the sum of angles A and B from 180°: Angle C = 180° - (40° + 55°) Angle C = 180° - 95° Angle C = 85° Therefore, the size of angle C is 85°.	1

9	10 minutes	Amelia's practice pattern takes 20 + 40 + 20 = 80 seconds. In 20 minutes, there are 20 × 60 = 1 200 seconds. 1 200 ÷ 80 = 15, so Amelia completes the pattern 15 times in 20 minutes. Each time she plays the pattern, she spends 40 seconds playing a piece of music. Therefore, the total time she spends playing pieces of music is 15 × 40 = 600 seconds. 600 seconds is equal to 10 minutes.	1
10	23	To find the value of p, we need to rearrange the equation and solve for p. Given: $s = (5 + p) \div 2$ and $s = 14$ Step 1: Multiply both sides of the equation by 2 to isolate the term containing p. $2 \times s = 2 \times ((5 + p) \div 2)$ $2 \times 14 = 5 + p$ $28 = 5 + p$ Step 2: Subtract 5 from both sides to solve for p. $28 - 5 = 5 - 5 + p$ $23 = p$ Therefore, when Samantha's score (s) is 14, the value of p is 23.	1