11+ Practice Test Answers

11+ Maths Test 12

Question	Answer	Explanation	Marks
1	124 000	To find the total number of coins Liam will earn, we need to multiply the number of dragons he defeated by the number of coins earned per dragon. Number of dragons defeated: 248 Coins earned per dragon: 500 Total coins earned = 248 × 500 = 124 000 Therefore, Liam will earn a total of 124 000 coins for defeating 248 dragons in the video game.	1
2	10,500	To find the total number of loaves of bread produced in a month, we need to multiply the daily production by the number of working days in a month. Daily production: 420 loaves Working days in a month: 25 days Total loaves per month = 420 × 25 Total loaves per month = 10,500 Therefore, the bakery produces 10,500 loaves of bread in a month.	1
3	11:38	To find the time when the cake will be ready, we need to add the baking time to the start time. Baking time: 1 hour and 15 minutes Start time: 10:23 Step 1: Convert 1 hour and 15 minutes to minutes. 1 hour = 60 minutes 60 minutes + 15 minutes = 75 minutes Step 2: Add 75 minutes to the start time (10:23). 10:23 + 75 minutes = 11:38 Therefore, if Amelia puts the cake in the oven at 10:23, it will be ready at 11:38.	1
4	2.95 km	To find the total distance Liam cycles, we need to add the two distances together. First, we need to convert 650 m to km: 650 m = 0.65 km (divide by 1 000 to convert from metres to kilometres) Now we can add the distances: 2.3 km + 0.65 km = 2.95 km Therefore, the total distance Liam cycles is 2.95 km.	1

5	Friday	The summer holidays start on Monday 24th July and last for 6 weeks and 4 days. 6 weeks is equal to 42 days (6 × 7 = 42). Adding the extra 4 days, we get a total of 46 days (42 + 4 = 46). To find the day of the week for the last day of the summer holidays, we can count forward 46 days from Monday 24th July. Counting forward 46 days (or 6 weeks and 4 days) from a Monday will land on a Friday. Therefore, the last day of the summer holidays will be on a Friday.	1
6	2:45 pm	To find out when Ethan arrives at the football pitch, we need to subtract 45 minutes from the start time of the match. The match starts at 3:30 pm. 45 minutes before 3:30 pm is calculated as follows: 60 minutes - 45 minutes = 15 minutes So, 45 minutes before 3:30 pm is 2:45 pm. Therefore, Ethan arrives at the football pitch at 2:45 pm.	1
7	The garden is in the shape of a rhombus.	In Sarah's garden design, two sides are 8 metres long, and one angle is 100°. This information is sufficient to determine that the garden cannot be in the shape of a rhombus. A rhombus is a quadrilateral with four equal sides and opposite angles that are equal. If two sides are 8 metres long and one angle is 100°, the garden cannot have four equal sides, which is a necessary condition for a rhombus. However, the given information does not rule out the possibility of the garden being in the shape of a kite, having an angle of 80°, or having the other two sides measuring 7 metres long. These statements could still be true based on the provided details. Therefore, the only statement that cannot be true is that Sarah's garden is in the shape of a rhombus.	1
8	0	The total number of squares on the sheet of wrapping paper is 12 × 18 = 216. To find the number of squares each friend gets, we divide the total by the number of friends: 216 ÷ 8 = 27. Since 27 × 8 = 216, we know that all 8 friends will get 27 squares each with none left over.	1
9	£7.65	To find out how much change Liam received, we need to: 1. Add up the cost of the items he bought: Crisps: £0.85 Chocolate bar: £0.60 Water: £0.90 Total spent = £0.85 + £0.60 + £0.90 = £2.35 2. Subtract the total spent from the amount he paid with (£10): Change = Amount paid - Total spent Change = £10 - £2.35 = £7.65 Therefore, Liam received £7.65 in change.	1

| 10 | 1 hour 12 minutes | To calculate the total time Liam spends travelling to play football in a week, we need to multiply the average time per trip by the number of trips per week.

Average time per trip: 18 minutes
Number of trips per week: 4

Total time = 18 minutes × 4
Total time = 72 minutes

To convert 72 minutes to hours and minutes, we divide by 60 (as there are 60 minutes in an hour) and use the remainder as the minutes.

72 ÷ 60 = 1 remainder 12

Therefore, 72 minutes is equal to 1 hour and 12 minutes. | 1 |