

11+ Practice Test Answers

11+ Maths Test 32

Question	Answer	Explanation	Marks
1	2	<p>Amelia starts with 12 sweets and gives half of them to Liam.</p> <p>Half of 12 is $12 \div 2 = 6$, so Liam receives 6 sweets.</p> <p>Liam then gives a third of the sweets he received to his sister Olivia.</p> <p>A third of 6 is $6 \div 3 = 2$, so Olivia receives 2 sweets.</p> <p>Therefore, the correct answer is that Olivia has 2 sweets.</p>	1
2	68 full boxes, 4 cupcakes left over	<p>To find the number of full boxes and leftover cupcakes, we need to divide the total number of cupcakes by the number of cupcakes each box can hold.</p> <p>$616 \div 9 = 68$ remainder 4</p> <p>This means that 68 full boxes can be made, and there will be 4 cupcakes left over.</p>	1
3	£21.15	<p>To find out how much each person paid, we need to divide the total cost of the meal by the number of friends.</p> <p>Total cost of the meal: £84.60 Number of friends: 4</p> <p>$£84.60 \div 4 = £21.15$</p> <p>Therefore, each person paid £21.15 for their share of the meal.</p>	1
4	1638	<p>The average number of loaves produced per week is 1,638 loaves.</p> <p>To find this, you need to calculate the total number of loaves produced in 49 days ($234 \times 49 = 11,466$ loaves), then divided this by the number of weeks ($49 \div 7 = 7$ weeks) to get the weekly average: $11,466 \div 7 = 1,638$ loaves per week.</p>	1
5	£0.75	<p>To find the cost of each cupcake, we need to divide the total cost of the box by the number of cupcakes in the box.</p> <p>Total cost of the box = £15 Number of cupcakes in the box = 20</p> <p>Cost per cupcake = Total cost \div Number of cupcakes Cost per cupcake = $£15 \div 20$ Cost per cupcake = £0.75</p> <p>Therefore, each individual cupcake costs £0.75.</p>	1

6	52.25 m ²	<p>Let the length of the garden be x metres.</p> <p>The width is 4 metres less than the length, so the width is $(x - 4)$ metres.</p> <p>The perimeter is 30 metres, so:</p> $2(\text{length}) + 2(\text{width}) = 30$ $2x + 2(x - 4) = 30$ $2x + 2x - 8 = 30$ $4x - 8 = 30$ $4x = 38$ $x = 9.5$ <p>So, the length is 9.5 metres and the width is $9.5 - 4 = 5.5$ metres.</p> <p>The area of a rectangle is length \times width.</p> $\text{Area} = 9.5 \times 5.5 = 52.25 \text{ square metres.}$ <p>Therefore, the area of the garden is 52.25 square metres.</p>	1
7	8 batches	<p>To find out how many batches Liam needs to make, we need to divide the total number of cookies by the number of cookies in each batch.</p> <p>Total cookies: 120 Cookies per batch: 15</p> $120 \div 15 = 8$ <p>Therefore, Liam will need to make 8 batches of cookies to reach his goal of 120 cookies for the school fundraiser.</p>	1
8	13:47	<p>To find the latest time James can start walking his dog, we need to work backwards from the train departure time.</p> <p>Train departs at 14:25 Subtract driving time of 18 minutes: $14:25 - 00:18 = 14:07$ Subtract dog walking time of 20 minutes: $14:07 - 00:20 = 13:47$</p> <p>Therefore, the latest time James can start walking his dog is 13:47.</p>	1
9	1213	<p>To find the difference between the highest and second highest attendances, we first need to identify the two highest values.</p> <p>The three attendances are: 85,792, 87,451, and 86,238.</p> <p>The highest attendance is 87,451, and the second highest is 86,238.</p> <p>To calculate the difference, we subtract the second highest value from the highest value:</p> $87,451 - 86,238 = 1,213$ <p>Therefore, the difference between the match with the highest attendance and the match with the second highest attendance is 1,213.</p>	1

10

108°

To find the measure of each interior angle in a regular pentagon, we can use the formula:

$$(n - 2) \times 180^\circ \div n$$

where n is the number of sides in the polygon.

For a pentagon, n = 5. So, let's substitute this value into the formula:

$$(5 - 2) \times 180^\circ \div 5$$

$$3 \times 180^\circ \div 5$$

$$540^\circ \div 5 = 108^\circ$$

Therefore, each interior angle in a regular pentagon measures 108°.

1