

Max's Easter Eggstravaganza: Year 6 Maths Assessment

Learning objective: To apply arithmetic, ratio, percentage, and algebraic reasoning to solve real-world problems.

Read each question carefully. Show all your working out in the spaces provided. Max the monkey is helping prepare for the community Easter fair!

Max is organising the annual Spring Fair. He has 120 chocolate eggs to sell. He also needs to order decorations and calculate the profits to donate to the local animal sanctuary. Help Max solve his maths puzzles to ensure the fair is a success.

Word bank: percentage · ratio · operation · calculate · equivalent · profit

1. Max has 120 eggs. He sells 35% of them before the doors even open. How many eggs did he sell? (2 marks)

2. The price of one large chocolate egg is £4.50. If Max sells 40 eggs at this price, what is his total revenue? (2 marks)

3. Max is making bunny-shaped biscuits. The ratio of flour to sugar is 3:2. If he uses 450g of flour, how much sugar does he need? (3 marks)

4. The total cost to host the fair is £240. If Max makes £600 in total sales, what is his profit? Express the profit as a fraction of the total sales in its simplest form. (4 marks)

5. Max says, 'If I have 'e' eggs and I give away 12, then divide the remainder into 4 baskets, I have 15 eggs in each basket.' Write an equation to represent this and solve for 'e'. (4 marks)

6. Max wants to buy balloons for the fair. They come in packs of 8 costing £2.40 per pack. He needs 100 balloons. How many packs must he buy, and what is the total cost? (5 marks)

7. Explain why it is important for Max to calculate his profit accurately before donating to the animal sanctuary. (5 marks)

Draw: Draw a symmetrical pattern for one of Max's Easter egg designs, ensuring it shows at least two lines of symmetry.



Extension challenge: Total: /25