Max’s Easter Egg Hunt Challenge

Learning objective: To apply mathematical reasoning to solve multi-step problems involving money, fractions, and measurements within an Easter context.

Read each question carefully. Use your working space to show your calculations. Ensure you include the correct currency symbols (£ and p) where appropriate. You have 45 minutes to complete this assessment.

Max the monkey is organising an Easter celebration for his friends. He has been busy buying chocolate eggs, decorating baskets, and planning an egg hunt in the meadow. He needs your mathematical expertise to ensure everything is ready in time for the spring festivities.

Word bank: calculate · equivalent · multiplication · perimeter · estimate · difference · remainder · total

1. Max buys 4 large chocolate eggs for £3.50 each. How much does he spend in total? Show your working out. (2 marks)

2. Ellie the elephant has 24 smaller eggs. She decides to give 3/8 of them to Pip the caterpillar. How many eggs does Pip receive? (2 marks)

3. Kit the fox is building a rectangular fence for the egg hunt area. The length is 8 metres and the width is 5 metres. Calculate the perimeter of the area. Explain how you found your answer. (3 marks)

4. Zara the zebra has a budget of £20.00. She spends £7.45 on colourful ribbons and £4.80 on baskets. How much change should she receive? Justify your answer by showing your subtraction steps. (3 marks)

5. Nova the owl notices that 126 eggs need to be packed into boxes. Each box holds 6 eggs. How many boxes will be completely filled? Will there be any eggs left over? (3 marks)

6. Compare and contrast the cost of buying 10 eggs at £1.20 each versus buying a bulk pack of 10 eggs for £10.50. Which is the better value for money? Explain your reasoning. (4 marks)

7. Creative Task: Max wants to design a new, symmetrical pattern for his Easter basket using geometric shapes. Write a short plan (50-70 words) describing the shapes you would use and how you would ensure the pattern is perfectly symmetrical. Why does symmetry make the basket look more professional? (5 marks)

Draw: In the space below, draw a symmetrical Easter egg pattern using at least three different geometric shapes (e.g., triangles, hexagons, or circles).

Extension challenge: Total: /25. What might happen if Max decided to invite double the number of guests to his party? Describe the mathematical changes he would need to make to his budget and his supplies list.