

Max's Festive Math Challenge

Learning objective: To apply Grade 3 mathematical skills including money, multiplication, time, and geometry in a seasonal context.

Read each question carefully. Show your working out in the space provided to earn method marks. Use a ruler for geometry questions.

Max the monkey is helping his friends prepare for the winter celebration. He has a list of tasks including buying decorations, wrapping gifts, and baking treats for the forest party. Max needs your help to ensure everything is ready on time!

Word bank: product · perimeter · estimate · digit · calculate · symmetry

1. Max buys 4 bags of star-shaped cookies for the party. Each bag costs £2.50. How much does Max spend in total? (2 marks)

2. A roll of festive ribbon is 840cm long. Max uses 350cm to wrap presents. How many centimetres of ribbon does he have left? (2 marks)

3. The party begins at 16:45. If it lasts for 1 hour and 30 minutes, what time will the party finish? Write your answer in digital format. (2 marks)

4. Max is arranging 72 chocolate coins into 6 equal piles to share among his friends. How many coins will be in each pile? Write the calculation you used to solve this. (3 marks)

5. Max draws a rectangular card for his friends. The length is 12cm and the width is 8cm. Calculate the perimeter of the card. Explain how you found your answer. (4 marks)

6. Max finds a snowflake pattern. If he draws a line of symmetry down the center, what do you notice about the two sides? Use mathematical vocabulary to describe the relationship. (2 marks)

7. Max wants to bake a large batch of 120 cookies. He can fit 10 cookies on one baking tray. Each tray takes 15 minutes to bake in the oven. Max says, 'It will take me exactly 2 hours to bake all the cookies.' Is Max correct? Show your working out and explain your reasoning clearly. (5 marks)

8. Max has £20.00. He buys a gift for £7.50 and a set of baubles for £4.25. How much change should he receive? (3 marks)

Draw: Draw a star with at least two lines of symmetry and label the lines using a ruler. _____



Extension challenge: Total: /25