

Max's Christmas Market Maths Challenge

Learning objective: To apply mathematical reasoning and financial literacy by calculating costs and identifying patterns within a Christmas market setting, whilst reflecting on the importance of generosity during the festive season.

Max the monkey is helping his friends organise a charity Christmas market. He has a list of items and their prices. Use your mathematical skills to solve the problems below. Show your workings clearly, as Max loves to see how you reached your answer!

Word bank: Budget · Profit · Donation · Total · Discount · Value · Currency

1. Pip the caterpillar wants to buy 3 hand-made bookmarks for £1.25 each and a festive storybook for £4.50. Calculate the total cost of Pip's shopping. If Pip pays with a £10 note, how much change should he receive? (3 marks)

2. Zara the zebra is selling hand-painted baubles. She sells 8 baubles at £2.10 each. If she spent £5.00 on materials to make them, what is her total profit? Justify your calculation. (3 marks)

3. Nova the owl notices that a string of fairy lights costs £7.80, but there is a 'buy one get one half price' offer. Explain why buying two strings of lights is better value than buying just one. (3 marks)

4. Ellie the elephant has a budget of £15.00 to buy gifts for her friends. She wants to buy 4 small tokens that cost £3.20 each. Does she have enough money? Explain your reasoning. (2 marks)

5. Compare and contrast the idea of 'giving' versus 'spending' at the Christmas market. Why might the friends choose to donate their profit to charity rather than keeping it? (3 marks)

6. What might happen if the price of materials increased next year? How would this affect the number of items the friends could sell to remain profitable? (3 marks)

Draw: Draw a festive stall for the BookFlik characters, ensuring you label the items with clear price tags using the £ symbol.



Extension challenge: Design a 'Special Offer' sign for the market. Create a mathematical rule for your offer (e.g., 'Buy 3 for the price of 2') and calculate how much a customer saves if they buy 6 items compared to buying them individually at £1.50 each.