

Max's Festive Math Challenge

Learning objective: To solve addition, subtraction, and multiplication problems involving money and measure in a festive context.

Read the information provided by Max the monkey and use your math skills to help him finish his holiday preparations. Show your working out clearly.

Max is getting ready for a festive celebration! He has been busy visiting the market to buy supplies. He bought 4 packets of star-shaped cookies for £1.25 each. He also found some colorful ribbon to decorate his tree; a long reel cost £3.60, but he had a voucher and saved 85p. Max also wants to wrap 8 small gifts for his friends. If each gift needs 45cm of wrapping paper, he needs to make sure he has enough. Max loves to solve these puzzles before he starts his decorating!

Word bank: total · calculate · difference · product · remainder · estimate

1. What is the total cost of the 4 packets of star-shaped cookies? (2 marks)

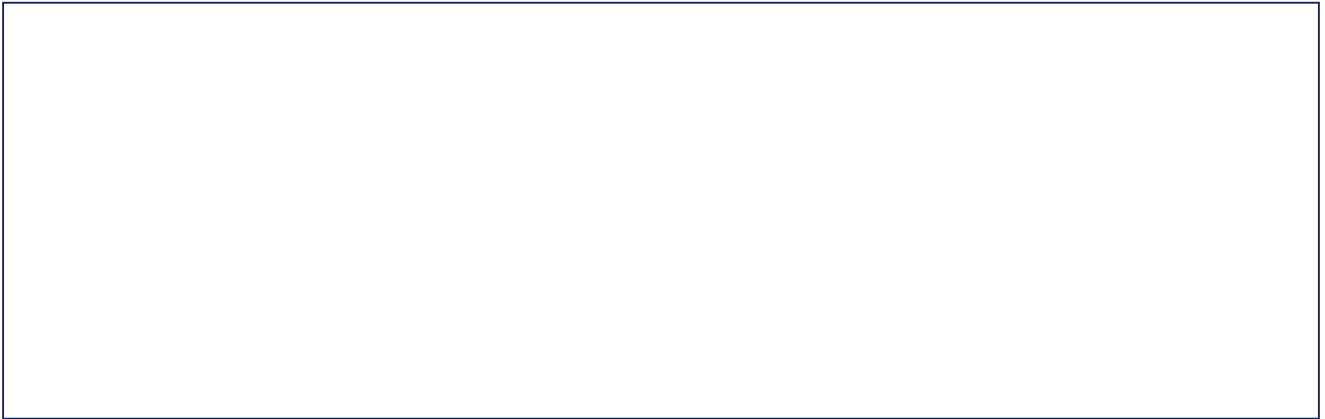
2. How much did Max pay for the ribbon after his 85p discount? (2 marks)

3. Max has a £10 note. If he buys the cookies and the ribbon, how much change will he receive? (3 marks)

4. Calculate the total length of wrapping paper needed for the 8 gifts. Give your answer in metres and centimetres. (2 marks)

5. If Max decides to buy a festive hat for £2.50, will he have enough money left from his original £10 note? Explain your reasoning. (2 marks)

Draw: Draw Max the monkey holding his festive cookies and wrapping paper, and include a pattern of stars somewhere in your drawing to match his cookies.



Extension challenge: Max wants to bake a large cake for his friends. If the recipe requires 250g of flour for every 4 people, how much flour does he need to bake a cake for 12 people?