

Max's Festive Maths Workshop

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

Read the scenarios below and help Max the monkey solve his Christmas planning puzzles. Show your working out clearly.

Max is getting ready for the festive season. He has a budget of £50.00 to buy treats for his forest friends. He visits the market and finds bags of mixed nuts for £2.45 each, packs of dried berries for £1.80 each, and shiny decorative baubles for £3.50 per pack. Max wants to buy 4 bags of nuts, 3 packs of berries, and 2 packs of baubles. He also needs to measure out ribbon to wrap his presents; he has a roll of ribbon that is 12 metres long and he uses 45 centimetres for each of his 10 presents.

Word bank: total · product · difference · estimate · calculation · pence · pounds

1. Calculate the total cost of 4 bags of nuts and 3 packs of berries. Show your addition. (2 marks)

2. How much change will Max have left from his £50.00 budget after buying all the items mentioned in the passage? (3 marks)

3. Max uses 45 centimetres of ribbon for each of his 10 presents. How many centimetres of ribbon does he use in total? (2 marks)

4. Convert the total length of ribbon used into metres and centimetres. (2 marks)

5. How much ribbon is left on the original 12-metre roll after Max finishes wrapping his presents? (2 marks)

Draw: Draw a festive pattern using at least three different 2D shapes that Max might use to decorate his gift tags.



Extension challenge: Max decides to buy a gift for Leo the lion. The gift costs £12.75. If Max buys this gift and still wants to have at least £15.00 remaining from his original £50.00, does he have enough money? Explain your reasoning using a calculation.