

Max's Festive Maths Challenge

Learning objective: To apply Year 5 mathematical skills including multiplication, division, fractions, and money calculations within a festive context.

Read each card carefully. Use your reasoning skills to solve Max the Monkey's Christmas puzzles. Show your working out clearly.

Max is buying 12 boxes of crackers at £2.45 each. What is the total cost?	A festive hamper costs £45.00. If you have a 10% discount voucher, how much money do you save?
£29.40	£4.50
If 150 Christmas cards are shared equally between 6 friends, how many cards does each friend receive?	A string of fairy lights is 4.5 metres long. If you use three-fifths of the length to decorate a tree, how many metres have you used?
25 cards	2.7 metres
Max has £50.00. He spends £12.75 on wrapping paper and £24.20 on ribbons. How much change does he have left?	A box of mince pies contains 12 pies. If you buy 8 boxes, how many individual pies do you have in total?
£13.05	96 pies
If a Christmas cake is cut into 20 equal slices and 12 slices are eaten, what fraction of the cake remains? (Simplify your answer).	A courier travels 124 miles to deliver presents. If they have completed 0.75 of the journey, how many miles have they travelled so far?
$\frac{2}{5}$	93 miles
Max needs to arrange 144 baubles into equal rows of 12. How many rows will he create?	Compare and contrast: Is it cheaper to buy a single pack of 5 bows for £1.50 or a bulk pack of 20 bows for £5.00? Justify your answer.
12 rows	The bulk pack is cheaper. 5 bows for £1.50 means 20 bows would cost £6.00. Buying the bulk pack saves £1.00.