

Max's Festive Maths Challenge

Learning objective: To apply Year 4 mathematical skills including multiplication, division, money calculations, and perimeter to festive-themed problems.

Read each card carefully. Use your reasoning skills to solve the problems. Max the monkey is ready to help if you get stuck with the calculations!

Max is buying 6 boxes of crackers for £4 each. How much will they cost in total?

£24

A string of fairy lights is 12 metres long. If the lights are spaced 30 centimetres apart, how many lights are there? (Hint: 1m = 100cm)

40 lights

Zara is wrapping presents. If she has 450cm of ribbon and uses 50cm for each box, how many boxes can she wrap?

9 boxes

A festive cake costs £12.50. If Pip splits the cost equally between 5 friends, how much does each person pay?

£2.50

The school hall is rectangular, measuring 8 metres by 6 metres. What is the perimeter of the hall where the decorations will hang?

28 metres

Leo has 72 mince pies. He wants to arrange them into 8 equal rows. How many pies will be in each row?

9 pies

If a bauble costs 85p, how much change would you get from a £2 coin?

£1.15

Bea the bee collects 4 jars of honey per day. How many jars will she collect in the 12 days of Christmas?

48 jars

Nova sees 3 stars in the sky every 5 minutes. How many stars will she see in one hour?

36 stars

Ellie is baking cookies. She needs 200g of flour for one batch. How many kilograms of flour does she need for 5 batches?

1 kilogram

Explain why it is important to estimate your total spend before going to the shop.

Estimation helps to ensure you stay within your set budget and do not overspend.

Compare and contrast: If you double the length of a rectangular room, what happens to the perimeter?

The perimeter does not simply double; you must add the two new lengths to the existing width calculations. Justify: Perimeter = $2(l+w)$. If l becomes $2l$, the new perimeter is $2(2l+w)$.