

Max's Festive Maths Challenge

Learning objective: To apply Year 6 mathematical skills including arithmetic, fractions, percentages, and money calculations within a Christmas context.

Help Max the monkey solve these festive puzzles! Read each question carefully. Remember to show your working out where possible.

Answer Key: 1) C, 2) True, 3) 48, 4) B, 5) £12.50, 6) False, 7) A, 8) 150, 9) C, 10) 75%.

Word bank: Percentage · Calculation · Discount · Equivalent · Total

1. Max is buying 12 boxes of crackers. If each box costs £4.50, what is the total cost? A) £50.00 B) £52.00 C) £54.00* D) £56.00 (1 mark)

2. True or False: If you have 200g of flour and use 25% of it for a festive cake, you have used 50g. (True/False)* (1 mark)

3. A pack of baubles contains 60 items. If 20% of the baubles are broken, how many are NOT broken? (1 mark)

4. Max wants to share 48 mince pies equally among 4 friends. How many does each friend get? A) 10 B) 12* C) 14 D) 16 (1 mark)

5. A toy train costs £25.00. In the Christmas sale, it has a 50% discount. What is the new price? (1 mark)

6. True or False: $\frac{3}{4}$ is equivalent to 0.75. (True*/False) (1 mark)

7. If Pip the caterpillar eats 15cm of tinsel every day for a week, how many centimetres does he eat in total? A) 105cm* B) 95cm C) 115cm D) 85cm (1 mark)

8. Max has 300 fairy lights. He uses 50% for the tree and half of the remainder for the window. How many lights are left over? (1 mark)

9. Which of these is the largest amount? A) £12.99 B) £13.01 C) £13.10* D) £12.85 (1 mark)

10. If a Christmas jumper costs £20 and is sold for £5, what percentage of the original price is the new price? (1 mark)

Draw: Draw Max the monkey wearing a colourful Christmas hat and holding a clipboard, standing next to a pile of neatly wrapped mathematical gift boxes.



Extension challenge: Max has £50 to spend on Christmas presents. He buys three gifts costing £12.40, £8.50, and £15.25. How much change does he have left? Write your calculation.