

Max's Spooky Calculation Challenge

Learning objective: To apply Year 5 mathematical skills including place value, multiplication, division, and calculating with money in a themed context.

Help Max the monkey solve these Halloween-themed puzzles. Show your working out clearly in the space provided.

Answer Key: 1. C (£14.85), 2. False, 3. 24, 4. B (0.75), 5. True, 6. 12, 7. A (144), 8. 8, 9. 5, 10. True.

Reasoning: Max uses multiplication for totals and division to share treats fairly. Always check your decimals when working with currency.

Word bank: Product · Quotient · Remainder · Decimal · Estimate · Total · Difference

1. Max buys 9 decorative pumpkins for £1.65 each. What is the total cost? A) £13.45 B) £15.35 C) £14.85* D) £14.95 (1 mark)

2. True or False: If you have 100 sweets and share them equally among 8 friends, each friend gets exactly 13 sweets. (1 mark)

3. Zara the zebra has 120 spider-web stickers. She arranges them into 5 equal rows. How many stickers are in each row? (1 mark)

4. What is $\frac{3}{4}$ written as a decimal? A) 0.25 B) 0.75* C) 0.50 D) 0.85 (1 mark)

5. True or False: The product of 12 and 12 is 144. (1 mark)

6. Kit the fox found 60 ghost masks. He divides them into packs of 5. How many packs does he have? (1 mark)

7. Which is the largest number? A) 144* B) 124 C) 140 D) 142 (1 mark)

8. If a bag of treats costs £4.50 and you pay with a £10 note, what is your change? (1 mark)

9. What is the remainder when you divide 47 by 6? (1 mark)

10. True or False: A prime number has only two factors: 1 and itself. (1 mark)

Draw: Draw a spooky scene where Max the monkey is sorting his Halloween treats into equal piles. Include a label showing the total number of sweets.



Extension challenge: 1. Explain why calculating the 'remainder' is important when sharing physical items like sweets. 2. Compare and contrast the cost of buying 5 items at £2.20 versus 10 items at £1.10. Justify which is better value. 3. If you had a budget of £20 to host a party, create a shopping list of at least four items and calculate your total. 4. What might happen if you miscalculated the change from a £20 note? 5. Justify your answer: Is 97 a prime number? 6. Design a 'maths ghost' by drawing a shape and writing three multiplication facts inside it that equal the area of the shape.