

Max's Mathematical Market Challenge

Learning objective: To solve multi-step problems involving addition, subtraction, multiplication, and division with money and measures in the context of the Year 5 curriculum.

Help Max the monkey calculate the costs and quantities for his forest market stall. Read each question carefully, show your working out, and check your units!

Answer Key: 1. C (£18.50); 2. True; 3. 6; 4. B (£12.40); 5. False (It is £1.50); 6. 13; 7. D (£4.00); 8. True; 9. 240; 10. 4. Reasoning: For Q10, 48 items divided by 12 equals 4.

Word bank: calculate · remainder · quotient · product · equivalent · estimate · multi-step

1. Max is selling jars of honey for £3.70 each. If he sells 5 jars, what is the total amount he earns? A) £15.50 B) £17.50 C) £18.50* D) £19.50 (1 mark)

2. True or False: If a bag of sunflower seeds costs £2.50 and Max buys 4 bags, the total cost is exactly £10.00. (1 mark)

3. Pip the caterpillar buys 3 ribbons that are 2 metres long each. If the total length of ribbon used is 6 metres, how many metres did she buy in total? (1 mark)

4. Ellie the elephant has £20.00. She spends £7.60 on fruit. How much change does she have left? A) £13.40 B) £12.40* C) £12.60 D) £11.40 (1 mark)

5. True or False: Zara the zebra buys a sketchbook for £4.50 and divides the cost equally between 3 friends. Each friend pays £2.00. (1 mark)

6. Max has 52 apples. He packs them into boxes of 4. How many boxes can he fill? (1 mark)

7. A pack of 6 pencils costs £3.00. How much would 8 pencils cost if they are sold individually at the same rate? A) £3.50 B) £3.75 C) £4.50 D) £4.00* (1 mark)

8. True or False: If Kit the fox walks 1.5km every day for 4 days, he has travelled a total of 6km. (1 mark)

9. Nova the owl collects 20 feathers every hour. How many feathers does she collect in 12 hours? (1 mark)

10. If Max has 48 forest berries and shares them equally among 12 friends, how many berries does each friend receive? (1 mark)

Draw: Draw Max the monkey standing behind a vibrant market stall in the forest, showing the price tags for his honey jars and apple baskets.



Extension challenge: 1. Explain why it is important to align the decimal points when adding money. 2. Compare and contrast solving a division problem with a remainder versus one that divides perfectly. 3. Justify your answer: If Max increases his prices by 10%, how would you calculate the new price of a £5.00 item? 4. What might happen if Max miscalculated the change for a customer; how would this affect his stall's profit? 5. Create your own multi-step word problem involving at least three different items and a total budget of £50.00. 6. If Max decides to sell bundles of items, how can you use multiplication to find the most cost-effective deal for his customers?