

Max's Market Math Challenge

Learning objective: To solve multi-step word problems involving money and measure, applying reasoning skills to real-life contexts.

Read each scenario carefully. Max the monkey needs your help to calculate the costs and quantities for his forest market stall. Show your working out clearly to earn full marks.

Max is organising the annual Forest Harvest Market. He needs to manage his budget and inventory carefully to make sure every animal in the woodland gets a fair deal.

Word bank: calculate · operation · total · difference · estimate · remainder · expenditure

1. Max has £20.00. He buys 4 punnets of blackberries at £2.40 each and a basket of apples for £3.50. How much change does he have remaining? Show your steps. (3 marks)

2. Pip the caterpillar wants to buy 6 bookmarks. Each bookmark costs 85p. If Pip pays with a £10 note, how much change will she receive? Explain how you calculated this. (3 marks)

3. The market sells jars of honey for £4.25. Last week, they sold 12 jars. This week, they sold 15 jars. Calculate the total difference in money earned between the two weeks. (3 marks)

4. Zara is buying ribbons for her art stall. She needs 8 metres of ribbon. A 2-meter roll costs £1.60. A 4-meter roll costs £3.00. Which option is better value for money? Justify your answer using calculations. (4 marks)

5. Max has a budget of £50.00. He needs to buy 5 bags of birdseed at £6.20 each and 3 watering cans at £4.50 each. Does he have enough money left to buy a £10.00 garden trowel? Explain why or why not. (4 marks)

6. If Max decides to increase the price of his honey jars by 50p, how many jars would he need to sell to make exactly £60.00? Show your reasoning. (3 marks)

Draw: Draw a bird's-eye view of Max's market stall, including price tags on items like honey jars, fruit baskets, and seed bags. Label your drawing with the total cost of one of his display bundles.



Extension challenge: Imagine the market prices change due to a shortage of supplies. Create your own multi-step word problem where a customer must buy at least three different items and calculate the total cost and change from a £20 note. Exchange your problem with a partner to solve.