

Year 6 Mathematics: Addition Mastery Assessment

Learning objective: To solve addition problems involving large numbers, decimals, and multi-step reasoning using formal written methods.

Read each question carefully. Show your working out for all calculations, as method marks may be awarded. Ensure you include units (such as £) where appropriate.

Max the monkey is helping the forest community organise their annual harvest festival. He needs to calculate the costs of supplies and the total weight of the fruit gathered by the animals.

Word bank: column addition · decimal point · carry · place value · sum · total · calculation

1. Max bought 4,562 apples and 3,879 pears. What is the total number of pieces of fruit he collected? Show your column addition. (2 marks)

2. The price of honey is £12.45 per jar. Bea buys three jars. If she also buys a bag of pollen for £4.56, what is the total cost of her shopping? (3 marks)

3. Calculate the missing value: $56,892 + ? = 100,000$. (2 marks)

4. Leo the lion gathered 12.5kg of berries on Monday, 8.75kg on Tuesday, and 15.2kg on Wednesday. What was the total weight of the berries? Ensure your decimal points are aligned. (3 marks)

5. Kit the fox has a budget of £500.00 to buy supplies for the school. He buys a set of maths equipment for £245.50 and a set of science books for £189.75. How much money does he have left from his original budget? (4 marks)

6. Explain why it is important to align the decimal point when adding numbers like 14.5 and 2.36. Use an example to support your answer. (6 marks)

7. Max wants to build a fruit tower. The first layer is 1,250g, the second is 875g, and the third is 450g. If he adds a base weighing 1,500g, what is the total weight of the tower in kilograms? (5 marks)

Draw: Draw a place value chart showing how you would set up the addition of $45.6 + 12.75$ to ensure the columns are correctly aligned.

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Extension challenge: Total: /25