

Grade 4 Mental Math Mastery: The BookFlik Challenge

Learning objective: To demonstrate fluency in mental arithmetic, including multiplication, division, place value, and multi-step word problems.

Read each question carefully. You may use the empty space for your working out. Show your method clearly to gain full marks. Remember to include units such as £ where appropriate.

Max the monkey is helping his friends organize their community market stall. He needs to keep track of all the items, prices, and calculations to ensure everything is fair and tidy.

Word bank: product · quotient · remainder · partition · estimate · difference · ascending

1. Max has 450 apples. He wants to pack them into bags of 9. How many bags will he have in total? Show your working. (2 marks)

2. Pip buys 4 books for £3.50 each. How much does Pip spend in total? Write your answer in dollars and cents. (2 marks)

3. Calculate the following mentally: $(12 \times 8) + (15 \div 3)$. Explain the order of operations you used to solve this. (3 marks)

4. Zara is painting patterns. She has a ribbon that is 840cm long. She cuts it into 4 equal pieces. How long is each piece? If she then cuts 15cm off one of those pieces, how long is that piece now? (4 marks)

5. Leo the lion has a collection of poetry books. He has 1,240 books. He gives 350 to the library and receives 125 new ones. How many books does he have now? Write down your mental strategy for this calculation. (4 marks)

6. Kit the fox is managing the market budget. The stall costs £150 to set up. They sell 20 jars of honey at £4.50 each and 10 hand-woven baskets at £8.00 each. After paying the £150 stall fee, how much profit do they have left? Show each step of your calculation clearly. (5 marks)

7. If you multiply a number by 10 and then divide the result by 2, you get 25. What is the original number? (5 marks)

Draw: Draw a sketch showing how Max the monkey might group 24 items into equal sets to help him count them faster.



Extension challenge: Total: /25