

Year 5 Mathematics Assessment: Addition Mastery

Learning objective: To add whole numbers with more than 4 digits, including using formal written methods (column addition) and solving multi-step addition problems.

Read each question carefully. Show your working out in the space provided. If you make a mistake, cross it out clearly. Ensure you include units like £ where appropriate.

Max the monkey is helping the local community centre prepare for their annual summer fair. He needs to calculate the total number of items collected and the total money raised from ticket sales to ensure everything is ready for the big day.

Word bank: column addition · sum · total · place value · carry · digits · estimate · calculation

1. Max counts 12,456 raffle tickets in the blue box and 8,975 raffle tickets in the red box. What is the total number of tickets? (2 marks)

2. Calculate the following using column addition: $45,892 + 37,219$. (2 marks)

3. The community centre raised £1,250 on Saturday and £2,485 on Sunday. How much money did they raise in total over the weekend? Write your answer in pounds (£). (2 marks)

4. Fill in the missing digits to make this calculation correct: $3_ , 4\ 5\ 6 + 1\ 2\ ,\ 3\ _ 7 = 4\ 7\ ,\ 7\ 9\ 3$ (4 marks)

5. Max buys three items for the fair: a banner for £15.75, a set of balloons for £8.40, and a pack of posters for £12.25. Show your working out to find the total cost. (4 marks)

6. Explain why it is important to align the place value columns correctly when adding two 5-digit numbers. Give an example to support your explanation. (6 marks)

7. Max has a budget of £500. He wants to buy equipment costing £245, £112, and £158. Does he have enough money? Use addition to prove your answer. (5 marks)

Draw: Draw a place value grid showing how you would set up the addition of 4,567 and 2,345 to help Max visualise the 'carrying' process.

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Extension challenge: Total: /25. Challenge: Can you create your own addition word problem involving a 5-digit number and a 4-digit number, then provide the solution?