

Max's Magnificent Maths Market

Learning objective: To understand, read, write, and compare numbers up to 10,000,000 and determine the value of each digit.

Max the monkey is organising a charity market to buy new books for the library. Read the passage below and use your knowledge of place value to solve the problems. Remember to check the position of each digit carefully.

Max has been busy calculating the market's success. He recorded that the total amount of money raised by the local community was £4,352,890. Max loves to break these numbers down. He notes that the digit 4 is in the millions column, while the digit 3 represents three hundred thousand. Meanwhile, the school stall sold exactly 1,025,600 raffle tickets to raise money for the new science garden. Max says, 'If we add another ten thousand tickets, the total changes significantly!'

Word bank: place value · digit · ten million · partition · thousand · hundred · column

1. In the total amount raised (£4,352,890), what is the value of the digit 5? Write your answer in words. (2 marks)

2. Max wants to write the number of raffle tickets (1,025,600) in expanded form. Write this number as a sum of its parts (e.g., 1,000,000 + ...). (2 marks)

3. If Max adds 10,000 to the raffle ticket total of 1,025,600, what will the new total be? (1 mark)

4. Which number is larger: 4,352,890 or 4,352,980? Explain how you know by looking at the place value of the digits. (3 marks)

5. Write the number 'two million, four hundred and six thousand, seven hundred and twelve' in digits. (1 mark)

Draw: Draw a place value chart showing the number 4,352,890. Use clear columns labelled from Millions down to Ones to help Max organise his market takings.

Millions	Hundreds of thousands	Tens of thousands	Thousands	Hundreds	Tens	Ones

Extension challenge: Max has a challenge for you: Can you write a number that has a 7 in the ten-thousands column, a 0 in the thousands column, and a 5 in the millions column? Once you have written it, try to partition it in two different ways.