

Max's Magnificent Market Rounding Challenge

Learning objective: To round numbers to the nearest 10, 100, and 1,000, and apply rounding skills to real-world monetary problems.

Max the monkey is helping at the local market today! He needs to round prices and quantities to keep his inventory organised. Follow the steps below to help Max manage his market stall. Remember: if the digit is 5 or more, round up; if it is 4 or less, round down.

Word bank: round · nearest · estimate · digit · value · interval · accurate · multiple

1. Max has 43 apples. Round this number to the nearest 10. Explain your reasoning using the 'rounding rule'. (2 marks)

2. A basket of organic strawberries costs £78. Round this price to the nearest £10. Why is rounding helpful when you are shopping at a busy market? (2 marks)

3. Max counted 1,284 visitors at the market. Round this number to the nearest 100. Justify your answer by showing the two multiples of 100 that the number sits between. (3 marks)

4. If a sack of potatoes costs £1,540, round this to the nearest 1,000. Compare this to rounding it to the nearest 100. Which gives a more accurate representation of the cost? (3 marks)

5. Max wants to buy a gift for £55. Round this to the nearest 10. What might happen if Max rounds his budget down instead of up when planning how much money he needs? (3 marks)

6. Create your own rounding puzzle for a friend: Write a number between 500 and 1,000 and ask them to round it to the nearest 100. Explain why your chosen number is tricky to round. (3 marks)

Extension challenge: Imagine the market prices change. Write a short paragraph explaining how rounding helps a stallholder calculate their total daily earnings quickly. If you were Max, would you rather round your prices up or down to make more profit? Justify your decision.