

Max's Market Rounding Challenge

Learning objective: To round any whole number to the nearest 10, 100, or 1,000.

Help Max the monkey organize his market stall prices. Read the passage carefully and use your knowledge of place value to round the numbers as requested. Remember: look at the digit to the right of the place you are rounding to!

Max is busy calculating the prices for his fruit stall. He wants to round his prices to make them easier for his friends to manage. He has a box of 1,245 juicy apples, 467 golden pears, and 2,892 plump plums. Max knows that if the digit is 5 or more, he must round up, but if it is 4 or less, he must round down. Help Max calculate his stock levels before the market opens!

Word bank: round · nearest · estimate · digit · interval · place value · approximate

1. Max has 467 pears. Round this number to the nearest 10. Explain the rule you used to decide whether to round up or down. (2 marks)

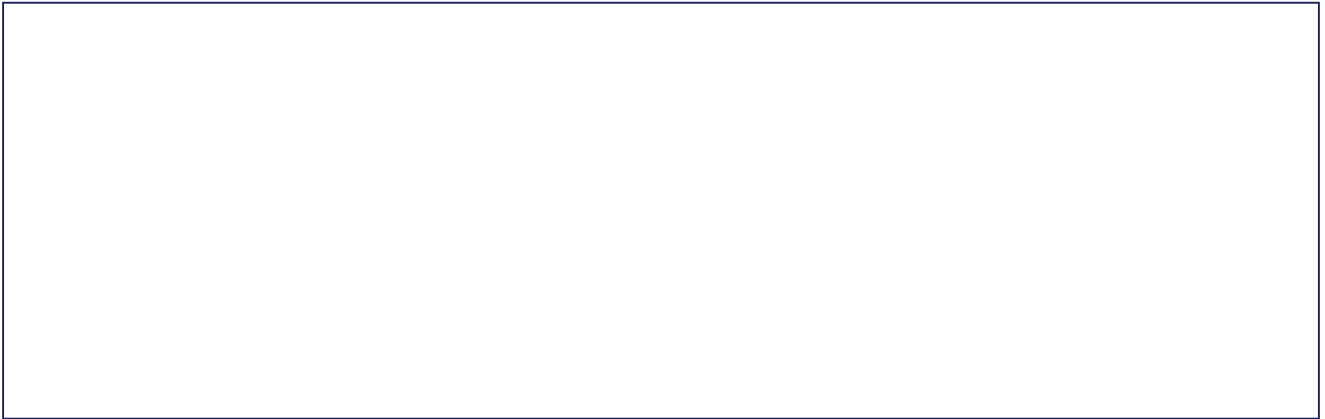
2. Round the number of apples (1,245) to the nearest 100. Show your working out. (2 marks)

3. The total number of items is 4,604. Round this to the nearest 1,000. Justify your answer by identifying which thousand it is closest to on a number line. (2 marks)

4. If Max wants to sell his plums for £2.89 each, he decides to round the price to the nearest pound. What is the new price? Explain why you chose this value. (2 marks)

5. Compare and contrast rounding to the nearest 10 and rounding to the nearest 100. Which digit do you look at for each? (2 marks)

Draw: Draw a number line from 1,200 to 1,300. Mark the number 1,245 on the line and show with an arrow why it rounds down to 1,200 when rounding to the nearest 100.



Extension challenge: What might happen if Max rounded every price on his stall down to the nearest £10? Create a scenario explaining how this would affect his total profit at the end of the day. Justify your reasoning using mathematical vocabulary.