

Max's Market Day Maths

Learning objective: To recognise that per cent means 'number of parts per hundred' and to solve problems involving percentages of amounts.

Read the story below and use your maths skills to help Max the monkey solve his market stall puzzles. Show your working out clearly.

Max the monkey is running a fruit stall at the forest market. He has 100 pieces of fruit to sell. He knows that 50% of his fruit are bananas, 25% are red apples, and 10% are juicy pears. The rest of the fruit are green grapes. Max uses his knowledge of fractions to help him work out how many of each fruit he has for his customers.

Word bank: percentage · hundredths · fraction · total · amount

1. If Max has 100 pieces of fruit in total, how many bananas does he have? Show your calculation. (2 marks)

2. Max sold 25% of his 100 fruits as red apples. How many apples did he sell? (1 mark)

3. If 10% of the 100 pieces of fruit are pears, how many pears does Max have on his stall? (1 mark)

4. Calculate how many green grapes Max has. (Hint: Add the bananas, apples, and pears together first, then subtract from 100). (3 marks)

5. A bunch of 10 bananas costs £2.00. If Max offers a 50% discount on the price, what is the new price of the bananas in pounds? (2 marks)

Draw: Draw a bar model or a circle chart showing Max's fruit stall, using different colours to represent the percentage of bananas, apples, pears, and grapes.



Extension challenge: Max decides to bring 200 pieces of fruit the next day. If 50% are bananas, how many bananas will he have? Explain how you found your answer using your knowledge of hundredths.