

Max's Market Stall Percentages

Learning objective: To recognise that per cent means 'out of 100' and to understand the relationship between fractions, decimals, and percentages.

Help Max the monkey calculate the prices and stock for his fruit stall. Remember that 50% is the same as $\frac{1}{2}$, and 25% is the same as $\frac{1}{4}$.

Max the monkey has opened a fruit stall at the village fete. He has 100 pieces of fruit in total. He likes to organise his stock using percentages. Today, he has 50 apples, 25 bananas, and 25 oranges. Max says, 'If I have 50 apples out of 100 pieces of fruit, that is 50%!' He wants to be sure he has enough for all his friends.

Word bank: percentage · fraction · decimal · equivalent · hundredth

1. If Max has 25 bananas out of 100 pieces of fruit, what percentage of his stock is bananas? (1 mark)

2. Write 50% as a fraction in its simplest form. (1 mark)

3. Max decides to put 25% of his fruit on special offer. How many pieces of fruit are on special offer? (2 marks)

4. Max sells 10% of his 100 pieces of fruit. How many pieces did he sell? (1 mark)

5. Explain in your own words why 25% is the same as one quarter. (2 marks)

Draw: Draw a 10x10 square grid to represent Max's 100 pieces of fruit. Colour 50% of the squares red for apples, 25% yellow for bananas, and 25% orange for oranges.



Extension challenge: Max has 200 pieces of fruit in his warehouse. If 50% of them are pears, how many pears does he have? Show your working out.