

Max's Market Percentage Puzzle

Learning objective: To recognise and understand that per cent means 'number of parts per hundred' and to solve simple percentage problems.

Help Max the monkey organise his market stall. Remember that 100% is the whole amount, and 50% is exactly half. Use the grid provided to shade in the quantities as you solve the maths problems.

Max is running a fruit stall at the school fete. He has a crate of 100 pieces of fruit. He wants to make sure he has enough variety for his friends. So far, 50% of the crate is apples, 25% of the crate is pears, and the remaining 25% is oranges. Max needs to draw a chart to show his stock to his friends so they know what is available to buy.

Word bank: percentage · per cent · hundredths · fraction · whole · part

1. If Max has 100 pieces of fruit in total, how many apples does he have if 50% are apples? (2 marks)

2. Max decides to sell his pears for £1.00 each. If he has 25% of his 100 pieces of fruit as pears, how much money will he make if he sells all of them? (2 marks)

3. Write 25% as a fraction with a denominator of 100. (1 mark)

4. If Max eats 10% of the apples, how many apples does he have left? (2 marks)

5. Explain in your own words what 'per cent' means. (2 marks)

Draw: Draw a 10x10 square grid. Colour 50% of the squares red to represent apples, 25% of the squares green for pears, and 25% of the squares orange for oranges.



Extension challenge: Max has 200 items on his stall now. If 10% of these are bananas, how many bananas does he have? Show your working out!