

Max's Market Stall: A Percentage Adventure

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

Max the monkey is helping his friends at the village market. Read the information below and use your knowledge of fractions and percentages to help Max solve the puzzles. Remember: 50% is the same as $\frac{1}{2}$, and 25% is the same as $\frac{1}{4}$.

Max is running a fruit stall. He has 100 pieces of fruit in total. He has 50 shiny red apples, which is 50% of his stock. He also has 25 juicy pears, which is 25% of his stock. Finally, he has 25 yellow bananas. Max wants to make sure he knows exactly how much of his stall each fruit takes up so he can organise his crates properly.

Word bank: percentage · fraction · decimal · hundredths · equal · equivalent · denominator

1. Max says that 50% of his fruit are apples. If he has 100 fruits in total, write 50% as a fraction. Simplify your answer. (2 marks)

2. Max has 25 pears. What percentage of his 100 fruits are pears? (1 mark)

3. If Max sells 10 bananas, he has 90 fruits left. Can he still say that 25% of his original stock were bananas? Explain why. (2 marks)

4. Max decides to sell some oranges. He says that 75% of his fruit is now red or yellow. What percentage of his fruit is NOT red or yellow? (2 marks)

5. Max wants to sell a bag of mixed fruit for £2.00. He offers a 50% discount to his friends. How much will the bag cost with the discount? (2 marks)

Draw: Draw a crate containing 100 squares. Colour 25% of the squares green to show where Max puts his limes, and 75% of the squares orange to show where he puts his oranges.



Extension challenge: Max has 200 items in his cupboard. If 25% are jars of honey, how many jars of honey does he have? Show your working out!