

## Max's Market Maths: Understanding Percentages

*Learning objective: Recognise that per cent means 'parts per hundred' and understand that percentages can be written as fractions with a denominator of 100.*

Help Max the monkey organise his market stall! Read the facts about his fruit and solve the problems by thinking about parts per hundred.

Max is busy setting up his fruit stall for the school fair. He has 100 pieces of fruit in total. He tells his friends, '50 per cent of my fruit are apples, which means 50 out of every 100 pieces are apples! That is the same as the fraction  $50/100$ , or one half.' Zara the zebra notices that 25 per cent of the fruit are oranges, and 10 per cent are bananas. Max uses his maths skills to make sure he has enough for everyone.

*Word bank: Percentage · Denominator · Hundred · Fraction · Equivalent · Whole*

**1. Max has 100 pieces of fruit. If 30 per cent are pears, how many pears does he have? Write this as a fraction with 100 as the denominator. (2 marks)**

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**2. If 50 per cent of Max's 100 fruits are apples, explain why this is the same as saying one half of the fruit are apples. (2 marks)**

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**3. Max sells a basket of fruit for £5.00. If he gives a '10 per cent discount' (which is £0.50 off), how much does the basket cost now? (2 marks)**

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**4. Zara counts 25 per cent of the fruit as oranges. Write 25 per cent as a fraction with 100 as the denominator. (1 mark)**

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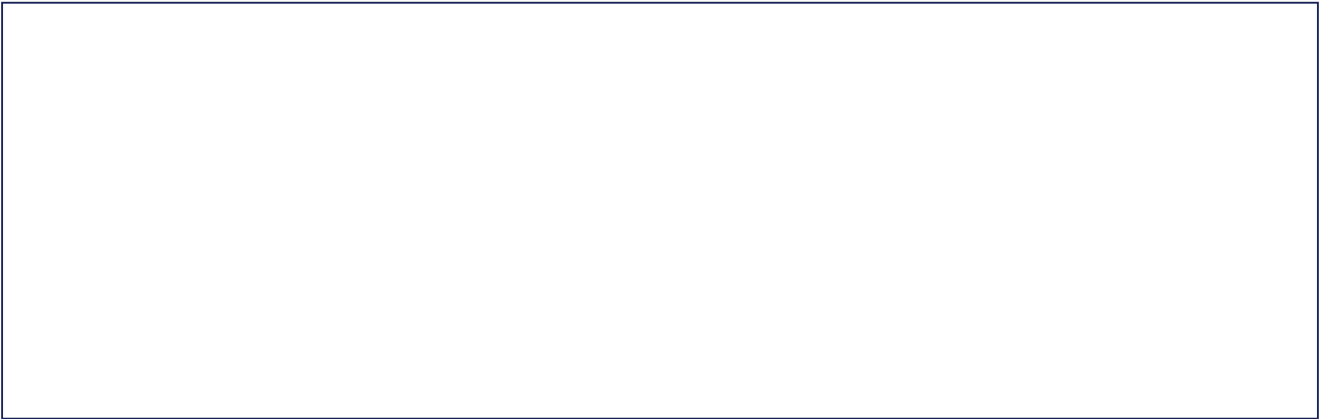
**5. If 10 per cent of the fruit are bananas and 10 per cent are plums, what is the total percentage of fruit that are either bananas or plums? (2 marks)**

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**Draw:** Draw a 10x10 grid (100 squares). Colour 20 squares red to show 20 per cent apples, and 40 squares yellow to show 40 per cent lemons.



*Extension challenge: Max has 200 pieces of fruit in total. If 50 per cent of them are strawberries, how many strawberries does he have? Explain your method.*