

# Max's Percentage Picnic

*Learning objective: To understand that a percentage means 'number of parts per hundred' and to recognise that 50% is equivalent to  $\frac{1}{2}$  and 25% is equivalent to  $\frac{1}{4}$ .*

Read the story below and help Max the monkey solve his picnic puzzles. Remember, 'per cent' means out of 100!

Max the monkey is preparing a picnic for his friends in the forest. He has 100 juicy blackberries to share! Max knows that percentages are just another way of writing fractions with a denominator of 100. If he gives 50 blackberries to Pip the caterpillar, he has given away 50 out of 100, which is 50%. Max notices that 50% is exactly the same as  $\frac{1}{2}$  of the berries. Next, Max decides to give 25 blackberries to Nova the owl. Since 25 out of 100 is 25%, he has given away  $\frac{1}{4}$  of his total stash. Max loves using maths to make sure everyone gets a fair share!

*Word bank: percentage · equivalent · fraction · hundredths · portion*

**1. If Max has 100 berries and gives 50% to Pip, how many berries does Pip receive? (2 marks)**

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**2. Explain why 25% is the same as  $\frac{1}{4}$  using the number 100 as your guide. (2 marks)**

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**3. Max finds 100 shiny pebbles. If he gives 75% of them to Zara, how many pebbles does Zara have? (2 marks)**

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**4. If 10% of a jar of 100 sweets are blue, how many sweets are NOT blue? (2 marks)**

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**5. Max says that 100% of his berries equals the whole pile. Is he correct? Why? (2 marks)**

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**Draw:** Draw a large square divided into 100 smaller squares (a 10x10 grid). Colour 25% of the squares red and 50% of the squares green.



*Extension challenge: Max has £1.00 to spend at the forest market. If an apple costs 25p, what percentage of his money would he spend on one apple? How many apples could he buy with 100% of his money?*