

# Max's Market Maths Challenge

*Learning objective: To recognise, find, and write fractions of a discrete set of objects and understand unit and non-unit fractions.*

Read the story about Max the monkey visiting the local market. Use your knowledge of fractions to solve the puzzles. Show your working out clearly.

Max the monkey is helping his friends at the village market today. He has a basket filled with 20 juicy red apples. He needs to share these fairly to make sure everyone has enough. Max notices that  $\frac{1}{4}$  of the apples are slightly smaller, so he decides to put those in a separate bag for a snack. Later, Max helps a farmer sort 12 colourful carrots. He finds that  $\frac{2}{3}$  of the carrots are bright orange, while the rest are a rare purple variety. Max loves using maths to make sure everything is shared equally!

*Word bank: numerator · denominator · fraction · part · whole · equivalent*

**1. Max has 20 apples in total. If  $\frac{1}{4}$  of the apples are small, how many small apples does Max have? (2 marks)**

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**2. Max has 12 carrots. If  $\frac{2}{3}$  of the carrots are orange, how many orange carrots are there? (2 marks)**

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**3. Using your answer from the previous question, how many purple carrots does Max have? (1 mark)**

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**4. If Max buys 3 apples for £1.00, how much would 1 apple cost? Write your answer in pence. (2 marks)**

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5. Max finds a box of 10 strawberries. He gives  $\frac{5}{10}$  to Ellie the elephant. Is this the same as giving her  $\frac{1}{2}$  of the strawberries? Explain how you know. (2 marks)

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**Draw:** Draw a basket containing 12 items (like fruit or vegetables). Colour  $\frac{3}{4}$  of the items red and  $\frac{1}{4}$  of the items green.



*Extension challenge: Max has a punnet of 24 blueberries. He gives  $\frac{1}{4}$  to Pip,  $\frac{1}{8}$  to Zara, and keeps the rest for himself. How many blueberries does Max keep?*