

## Max's Market Stall: The Fraction Challenge

*Learning objective: To identify, name, and write equivalent fractions, and to add and subtract fractions with the same denominator.*

Max the monkey is running a fruit stall. He needs your help to organise his stock! Read the descriptions below and complete the calculations. For each question, show your working out to help Max get his sums right.

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

**1. Max has 12 apples. He sells  $\frac{4}{12}$  of them to a customer. Simplify this fraction to its lowest terms. Explain how you found your answer. (2 marks)**

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**2. Max has a punnet of 10 strawberries. He eats  $\frac{2}{10}$  and gives  $\frac{3}{10}$  to his friend. What fraction of the strawberries does he have left? Write the answer as a fraction. (2 marks)**

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**3. A box of pears contains 8 pears. Max sells  $\frac{1}{2}$  of the box. How many pears did he sell? Show your calculation. (2 marks)**

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**4. Max buys a crate of bananas for £10. If he sells  $\frac{3}{5}$  of the bananas, what is the equivalent fraction with a denominator of 10? (2 marks)**

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**5. If Max has  $\frac{2}{7}$  of a melon and adds it to  $\frac{3}{7}$  of a melon, what fraction of the melon does he have in total? Is this more or less than  $\frac{1}{2}$  of a melon? (2 marks)**

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**Draw:** Draw a large fruit basket and divide it into 8 equal sections. Colour in  $\frac{3}{8}$  of the sections with yellow to show bananas, and  $\frac{4}{8}$  with red to show apples. How many sections are left empty?



*Extension challenge: Max wants to sell a fruit salad mix. If he mixes  $\frac{1}{4}$  of a kg of grapes,  $\frac{2}{8}$  of a kg of melon, and  $\frac{1}{2}$  of a kg of berries, how many kilograms of fruit does he have in total? Explain why these fractions can be added together.*