

Max's Fraction Adventure

Learning objective: To recognise, find, and write fractions of a discrete set of objects and solve problems involving tenths and hundredths.

Read the story below and help Max the monkey solve his fraction puzzles. Show your working out clearly.

Max the monkey is helping his friends pack for a picnic. He has a basket filled with 20 pieces of fruit. He notices that 5 of the pieces are shiny red apples and 10 are yellow bananas. Max loves to turn everything into a maths puzzle! He also has a bag of 100 sunflower seeds that he wants to share equally among 10 of his forest friends. As he sorts the food, he wonders how much of the total collection each portion represents.

Word bank: numerator · denominator · fraction · tenth · hundredth · equivalent

1. What fraction of the 20 pieces of fruit are apples? Give your answer in its simplest form. (2 marks)

2. Max decides to give each of his 10 friends an equal share of the 100 sunflower seeds. What fraction of the total seeds does each friend receive? (2 marks)

3. If Max eats 2 of the 10 bananas, what fraction of the total 20 pieces of fruit has he eaten? (2 marks)

4. Max buys a punnet of 10 strawberries for £2.00. If he eats 4 of them, what is the cost of the strawberries he has eaten? (Hint: Find the fraction first!) (2 marks)

5. Write down a fraction that is equivalent to $\frac{1}{2}$ using a denominator of 10. (1 mark)

Draw: Draw Max's fruit basket with 20 pieces of fruit inside. Colour 5 apples red, 10 bananas yellow, and 5 pears green to show the fractions you calculated.



Extension challenge: Max has 100 seeds. If he gives $\frac{3}{10}$ to the birds and $\frac{40}{100}$ to the squirrels, how many seeds does he have left for his friends? Write your answer as a fraction of the total 100 seeds.