

Max's Fraction Feast: A Mathematical Menu

Learning objective: To recognize, find, and write fractions of a discrete set of objects and understand tenths and hundredths.

Max the monkey is organising a feast! Help him calculate the portions for his woodland friends. Use your knowledge of numerators and denominators to solve these fraction challenges. Show your working out clearly.

Word bank: numerator · denominator · fraction · equivalent · whole · part · total · tenth · hundredth

1. The Fruit Bowl: Max has 20 pieces of fruit. If $\frac{3}{5}$ of them are bananas, how many bananas are there? Show your calculation. (2 marks)

2. Sharing Treats: Zara the zebra has 12 apples. She wants to give $\frac{1}{4}$ to Pip and $\frac{1}{3}$ to Nova. How many apples does she give away in total? Explain your steps. (3 marks)

3. Compare and Contrast: Is $\frac{2}{8}$ the same as $\frac{1}{4}$? Justify your answer using a diagram or a mathematical explanation. (3 marks)

4. The Price of Seeds: A bag of birdseed costs £4.00. If Bea the bee buys $\frac{1}{10}$ of the bag, how much does she pay in dollars and cents? Show your working. (2 marks)

5. What might happen if: Max tried to divide his 20 pieces of fruit into ninths? Explain why this would be difficult with the current amount of fruit. (3 marks)

6. Creative Challenge: Invent your own fraction word problem involving a picnic with at least three different types of snacks. Provide the solution. (4 marks)

Extension challenge: Max has 100 acorns. If he gives 0.45 of them to the squirrels, write this as a fraction with a denominator of 100 and a fraction in its simplest form. Explain how you converted the decimal to a fraction.