

Year 6 Maths Assessment: Fractions Masterclass with Max the Monkey

Learning objective: To demonstrate understanding of simplifying fractions, comparing and ordering, adding and subtracting fractions, and multiplying and dividing fractions by whole numbers.

Read each question carefully. Show your working out clearly, as you may gain marks for your method even if the final answer is incorrect. Max the Monkey is counting on you!

Max the Monkey is organising his fruit stall. He has crates of bananas and apples that need to be sorted into fractions to keep his stockroom tidy. Help Max solve his fruit-based puzzles!

Word bank: numerator · denominator · equivalent · simplify · mixed number · improper fraction · common factor

1. Max has 24 bananas. He gives $\frac{3}{8}$ of them to his friends. How many bananas does he have left? (2 marks)

2. Simplify these fractions to their lowest terms: a) $\frac{12}{18}$, b) $\frac{20}{35}$ (2 marks)

3. Compare these fractions using $<$, $>$ or $=$. Explain your reasoning: $\frac{3}{4}$ and $\frac{7}{10}$. (3 marks)

4. Calculate: $\frac{3}{5} + \frac{1}{4}$. Show your method for finding a common denominator. (3 marks)

5. Max buys a crate of apples for £12. He sells $\frac{2}{3}$ of the apples for £10. If he sells the remaining apples for £1 each, how much total profit does he make? (4 marks)

6. Solve: $\frac{5}{6} \div 2$. Draw a diagram to show why the answer is $\frac{5}{12}$. (3 marks)

7. Max is planning a fruit salad recipe. He needs 2 and $\frac{1}{4}$ cups of strawberries, 1 and $\frac{3}{8}$ cups of blueberries, and $\frac{3}{4}$ cups of raspberries. Write a short explanation for Max detailing the total amount of fruit needed in cups. Show your calculation as an improper fraction first, then convert it back to a mixed number. Why is it important for Max to have common denominators when adding these amounts? (8 marks)

Draw: Draw a visual representation of $\frac{3}{4}$ divided by 2 to help Max see the solution.



Extension challenge: Total: /25