

Grade 4 Mathematics: Fractions Assessment

Learning objective: To demonstrate understanding of equivalent fractions, improper fractions, mixed numbers, and addition/subtraction of fractions with the same denominator.

Read each question carefully. Show your working out for all calculations. Ensure your final answers are simplified where possible.

Max the monkey is helping his friends organize their fruit stall. He has several baskets of apples and oranges that need to be weighed and shared out correctly using fractions.

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

1. Max has $\frac{4}{12}$ of a crate of apples. Write this fraction in its simplest form. (2 marks)

2. Fill in the missing numbers to make these fractions equivalent: $\frac{3}{5} = \frac{?}{10} = \frac{12}{?}$ (2 marks)

3. Convert the improper fraction $\frac{13}{4}$ into a mixed number. (2 marks)

4. Pip the caterpillar ate $\frac{2}{7}$ of a leaf on Monday and $\frac{3}{7}$ of the same leaf on Tuesday. What fraction of the leaf has Pip eaten in total? (2 marks)

5. Ellie the elephant has £10. She spends $\frac{3}{5}$ of her money on a history book. How much money does she have left? (4 marks)

6. Zara the zebra has two identical canvases. She paints $\frac{5}{8}$ of the first canvas and $\frac{7}{8}$ of the second canvas. Write the total amount of canvas painted as an improper fraction and then as a mixed number. (4 marks)

7. Max is organising fruit baskets. He has 15 apples. He gives $\frac{1}{3}$ of them to Pip and $\frac{2}{5}$ of them to Nova. Explain, using calculations, who receives more apples and how many more they receive than the other friend. (5 marks)

8. If a punnet of strawberries costs £4.00, how much would $\frac{3}{4}$ of a punnet cost? (2 marks)

Draw: Draw a circle and divide it into 8 equal parts. Shade $\frac{5}{8}$ of the circle to represent the fraction.



Extension challenge: Total: /25