

Year 3 Maths Assessment: Fabulous Fractions

Learning objective: To assess understanding of unit and non-unit fractions, fractions of amounts, and equivalent fractions.

Read each question carefully. Max the monkey needs your help to solve these fraction puzzles. Show your working out clearly in the space provided.

Max the monkey is organising his fruit shop. He has a crate of 12 bananas, a basket of 20 shiny red apples, and some delicious slices of melon. Help Max sort his fruit and solve the fraction puzzles.

Word bank: numerator · denominator · equivalent · whole · part · fraction

1. Max has 12 bananas. He gives $\frac{1}{4}$ of them to Leo the lion. How many bananas does Leo get? Show your calculation. (2 marks)

2. Circle the fractions that are equivalent to $\frac{1}{2}$: $\frac{2}{4}$, $\frac{1}{3}$, $\frac{3}{6}$, $\frac{2}{6}$, $\frac{4}{8}$. (3 marks)

3. Max has 20 apples. He puts $\frac{3}{5}$ of them into a bag for a picnic. How many apples are in the bag? (3 marks)

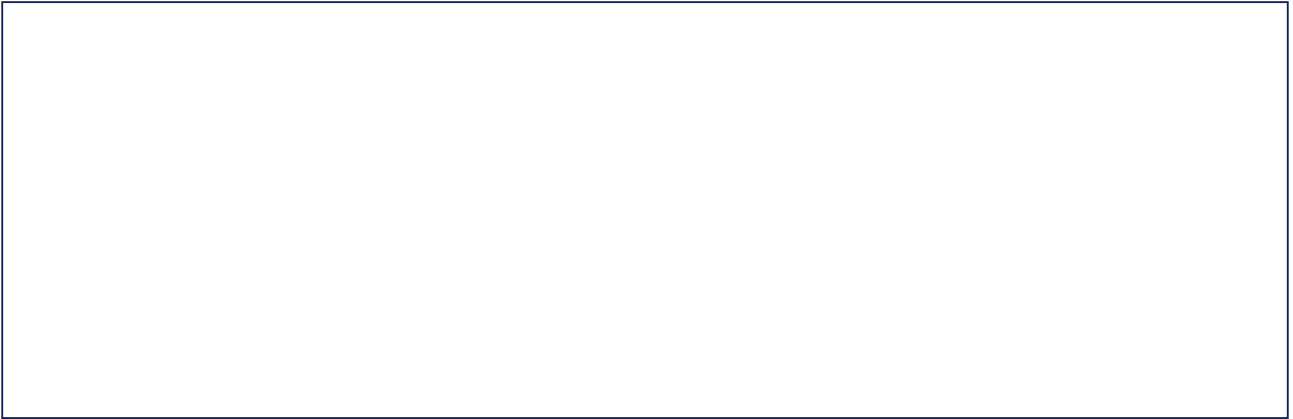
4. Explain why the denominator tells us how many equal parts the whole is divided into. Give an example using a pizza. (4 marks)

5. Compare these fractions using $<$, $>$ or $=$ symbols: $\frac{1}{4}$ ____ $\frac{3}{4}$, $\frac{2}{6}$ ____ $\frac{1}{3}$, $\frac{5}{8}$ ____ $\frac{7}{8}$. (3 marks)

6. Max has 10 coins. He spends $\frac{1}{2}$ of his money on a new toy which costs £5. If he had £10 in total, explain how you know that $\frac{1}{2}$ of £10 is £5. (5 marks)

7. Max cuts a melon into 8 equal slices. He eats 2 slices and gives 3 slices to Pip the caterpillar. What fraction of the melon is left? (5 marks)

Draw: Draw a circle and divide it into four equal parts. Shade $\frac{3}{4}$ of the circle to show Max how much of his melon he has remaining for his friends.



Extension challenge: Total: /25