

Max's Magnificent Maths Challenge: Fractions Fun

Learning objective: To consolidate understanding of equivalent fractions, comparing fractions, and converting between improper fractions and mixed numbers.

Join Max the monkey as he navigates the jungle of fractions. Read each question carefully, show your working out, and aim for full marks!

Answer Key: 1. B ($\frac{3}{4}$); 2. True; 3. $2\frac{1}{4}$; 4. B ($\frac{6}{10}$); 5. False ($\frac{7}{8} > \frac{3}{4}$); 6. $\frac{1}{3}$; 7. C ($\frac{4}{5}$); 8. True; 9. $1\frac{3}{5}$; 10. $\frac{12}{5}$. Total marks: 10.

Word bank: Numerator · Denominator · Equivalent · Improper · Mixed number · Simplifying

**1. Max has 12 bananas. He gives away $\frac{3}{4}$ of them. How many bananas does he give away?
A) 6, B) 9*, C) 8, D) 10 (1 mark)**

2. True or False: $\frac{4}{8}$ is equivalent to $\frac{1}{2}$. (1 mark)

3. Convert the improper fraction $\frac{9}{4}$ into a mixed number. (1 mark)

4. Which fraction is equivalent to $\frac{3}{5}$? A) $\frac{4}{10}$, B) $\frac{6}{10}$ *, C) $\frac{5}{10}$, D) $\frac{3}{15}$ (1 mark)

5. True or False: $\frac{3}{4}$ is smaller than $\frac{7}{8}$. (1 mark)

6. Simplify the fraction $\frac{4}{12}$ to its simplest form. (1 mark)

7. Which of these is the largest? A) $\frac{1}{2}$, B) $\frac{2}{5}$, C) $\frac{4}{5}$ *, D) $\frac{3}{10}$ (1 mark)

8. True or False: To add fractions with different denominators, you must first find a common denominator. (1 mark)

9. Write $\frac{8}{5}$ as a mixed number. (1 mark)

10. Convert the mixed number $2\frac{2}{5}$ into an improper fraction. (1 mark)

Draw: Draw a basket of 20 fruits where $\frac{1}{4}$ of the fruits are mangoes, $\frac{2}{5}$ are oranges, and the rest are apples. Label your fractions clearly.



Extension challenge: 1. Explain why $\frac{2}{3}$ is greater than $\frac{5}{9}$. 2. Justify your answer: Is it always true that a larger denominator means a smaller fraction? Give an example. 3. What might happen if you tried to add $\frac{1}{2}$ and $\frac{1}{3}$ without finding a common denominator? 4. Compare and contrast improper fractions and mixed numbers. 5. If Max buys 3 packs of stickers for £2.50 each and uses $\frac{1}{2}$ of his total stickers, how much did the stickers he used cost? 6. Create your own fraction word problem involving money (£) for a friend to solve.