

Max's Magnificent Maths Fractions Challenge

Learning objective: To build confidence in adding, subtracting, multiplying, and simplifying fractions, as well as converting between mixed numbers and improper fractions.

Help Max the monkey solve these fraction puzzles! Read each question carefully. For multiple-choice questions, select the correct letter. For True/False and short-answer questions, write your answer clearly.

Answer Key: 1. C, 2. True, 3. $\frac{3}{4}$, 4. B, 5. False, 6. $\frac{13}{5}$, 7. A, 8. $\frac{1}{10}$, 9. False, 10. $\frac{1}{2}$. Max says: Keep practising to become a fraction master!

Word bank: Denominator · Numerator · Equivalent · Simplest form · Mixed number · Improper fraction

1. 1. Max has $\frac{2}{5}$ of a banana and finds another $\frac{1}{5}$. What is the total? A) $\frac{1}{10}$, B) $\frac{3}{10}$, C) $\frac{3}{5}$ *, D) $\frac{2}{25}$ (1 mark)

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

3. 3. What is $\frac{9}{12}$ in its simplest form? (1 mark)

4. 4. Which is the improper fraction for 2 and $\frac{3}{4}$? A) $\frac{8}{4}$, B) $\frac{11}{4}$ *, C) $\frac{9}{4}$, D) $\frac{10}{4}$ (1 mark)

5. 5. True or False: To add fractions with different denominators, you can add the numerators and denominators together straight away. (1 mark)

6. 6. Convert 2 and $\frac{3}{5}$ into an improper fraction. (1 mark)

7. 7. What is $\frac{1}{3}$ multiplied by $\frac{1}{4}$? A) $\frac{1}{12}$ *, B) $\frac{1}{7}$, C) $\frac{2}{7}$, D) $\frac{2}{12}$ (1 mark)

8. 8. Subtract $\frac{1}{5}$ from $\frac{3}{10}$. (Hint: Convert to the same denominator first). (1 mark)

9. 9. True or False: A fraction where the numerator is larger than the denominator is called a proper fraction. (1 mark)

10. 10. If Max shares £10 equally among 20 monkeys, what fraction of a pound does each monkey get? (1 mark)

Draw: Draw Max the monkey holding a giant fraction pizza cut into pieces, showing $\frac{3}{8}$ of the pizza with olives and $\frac{5}{8}$ of the pizza with mushrooms.



Extension challenge: Challenge: If Max has £5.50 and spends $\frac{2}{5}$ of it on fruit, how much money does he have left? Show your working out.