

Max's Magnificent Fraction Festival

Learning objective: To recognize, find, and write fractions of a discrete set of objects; recognize and show, using diagrams, families of common equivalent fractions; and solve problems involving increasingly harder fractions.

Join Max the monkey for a math adventure! Read each question carefully. For multiple-choice questions, choose the correct letter. Show your working out clearly in the space provided.

Answer Key: 1) C, 2) True, 3) $\frac{1}{4}$, 4) B, 5) 6, 6) False, 7) A, 8) $\frac{1}{2}$, 9) $\frac{3}{4}$, 10) 8. Explanation: Equivalent fractions represent the same value; for example, $\frac{2}{4}$ is the same as $\frac{1}{2}$.

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

1. Max has 10 bananas. He eats $\frac{2}{5}$ of them. How many bananas did he eat? A) 2, B) 3, C) 4*, D) 5 (1 mark)

2. True or False: $\frac{2}{6}$ is equivalent to $\frac{1}{3}$. (1 mark)

3. If a cake is cut into 8 equal slices and you eat 2, what fraction have you eaten? (Simplify your answer) (1 mark)

4. Which fraction is the largest? A) $\frac{1}{8}$, B) $\frac{1}{2}$ *, C) $\frac{1}{4}$, D) $\frac{1}{10}$ (1 mark)

5. What is $\frac{3}{4}$ of 8? (1 mark)

6. True or False: The denominator is the top number in a fraction. (1 mark)

7. Zara has a ribbon 12cm long. She cuts off $\frac{1}{3}$ of it. How long is the piece she cut off? A) 4cm*, B) 3cm, C) 6cm, D) 2cm (1 mark)

8. If you have 10 coins and spend £5, what fraction of your money did you spend? (1 mark)

9. Max finds 12 acorns. He gives $\frac{1}{4}$ to Pip and $\frac{1}{4}$ to Ellie. What fraction of the acorns does Max have left? (1 mark)

10. If $\frac{1}{2}$ of a box of chocolates is 4, how many chocolates are in the whole box? (1 mark)

Draw: Draw a basket of 12 apples. Color $\frac{1}{4}$ of the apples red and $\frac{3}{4}$ of the apples green. Label your fractions clearly.



Extension challenge: 1. Explain why $\frac{4}{8}$ and $\frac{5}{10}$ are considered equivalent fractions. 2. Justify your answer: Is $\frac{1}{3}$ of £12 more or less than $\frac{1}{4}$ of £20? 3. Compare and contrast unit fractions and non-unit fractions using examples. 4. What might happen if you divide a whole into 100 parts instead of 10? How does the denominator change? 5. Create a word problem involving fractions of an amount that results in the answer 5. 6. If you have $\frac{3}{4}$ of a pizza and give away $\frac{1}{4}$, calculate how much you have left and justify why this is a unit fraction.