

# Max's Magnificent Fractions Word Mat

*Learning objective: To understand, identify, and apply fractions of amounts and shapes according to the Year 4 curriculum.*

Read through the key terms below to help you solve Max the Monkey's fraction puzzles. Use your knowledge of division to find fractions of amounts.

Max the monkey is organising his fruit shop. He has a basket of 20 shiny apples. He decides to give  $\frac{1}{4}$  of them to Pip the caterpillar. To work this out, Max divides the total by the denominator (4), which gives him 5 apples. He then keeps the rest for his friends. Max knows that if he has  $\frac{2}{4}$  of a basket, it is the same as having  $\frac{1}{2}$  of the basket, because these fractions are equivalent.

*Word bank: Numerator · Denominator · Unit fraction · Non-unit fraction · Equivalent · Whole · Part*

**1. Max has 24 bananas. He gives  $\frac{1}{3}$  of them to his friends. How many bananas does he give away? (2 marks)**

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**2. Explain the difference between a numerator and a denominator. Use an example in your answer. (2 marks)**

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**3. If Max has  $\frac{3}{5}$  of a bag of 20 grapes, how many grapes does he have? (2 marks)**

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**4. Are  $\frac{2}{8}$  and  $\frac{1}{4}$  equivalent fractions? Explain how you know. (2 marks)**

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**5. Max buys a box of 32 chocolates. He eats  $\frac{1}{8}$  of them. How many chocolates are left in the box? (2 marks)**

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**Draw:** Draw a rectangle and divide it into 8 equal parts. Shade  $\frac{4}{8}$  of the rectangle and show how this is the same as shading  $\frac{1}{2}$ .



*Extension challenge: Max has £1.00. He spends  $\frac{3}{4}$  of his money on a new puzzle. How much money does he have left in pence? Show your working out.*