

# Max's Market Day Fractions

*Learning objective: To recognise, find, and write fractions of a discrete set of objects and solve problems involving money.*

Read the story about Max the monkey and his trip to the market. Use your knowledge of fractions to help him solve his maths puzzles.

Max the monkey was very excited because it was market day. He had been saving his pocket money all week and had exactly £12 to spend. At the first stall, he saw a basket of 20 shiny red apples. The stallholder told Max that  $\frac{1}{4}$  of the apples were smaller than the others. Max carefully counted them and bought all the smaller ones to make a snack for his friends. Next, Max visited the bakery. There were 15 delicious honey cakes displayed on a tray. Max decided to buy  $\frac{1}{3}$  of the cakes for his picnic. Finally, he went to the florist. He saw 10 beautiful sunflowers. He decided to buy  $\frac{2}{5}$  of them to decorate his treehouse. Max felt very pleased with his shopping trip, especially because he had used his maths skills to make sure he got exactly the right amount of treats.

*Word bank: numerator · denominator · fraction · equivalent · total · share*

**1. How many small apples did Max buy from the basket of 20? Show your working out. (2 marks)**

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**2. Max bought  $\frac{1}{3}$  of the 15 honey cakes. How many cakes did he take home? (1 mark)**

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**3. If Max bought  $\frac{2}{5}$  of the 10 sunflowers, how many sunflowers did he buy? (2 marks)**

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**4. If each honey cake cost £1, how much did Max spend on his cakes? Was this more or less than half of his total £12 budget? (2 marks)**

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**5. Explain in your own words what the denominator tells us about the apples in the first stall. (2 marks)**

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**Draw:** Draw the tray of 15 honey cakes. Colour  $\frac{1}{3}$  of them brown to show the ones Max bought, and leave the others plain.



*Extension challenge: Max has £6 left of his original £12. If he sees a bag of 12 marbles and wants to buy  $\frac{3}{4}$  of them, does he have enough money if each marble costs 50p? Explain your answer.*