# Max’s Magnificent Market Maths

*Learning objective: To solve problems involving division, including using formal written methods of long division for four-digit numbers by two-digit numbers.*

Help Max the monkey calculate the costs and quantities for his forest market stall. Use your knowledge of long division to solve these problems. Remember to show your working out clearly.

Max is organising the annual Forest Market. He has 2,856 organic shiny acorns that need to be packed into small gift bags. Each bag must contain exactly 12 acorns. Max also has 3,432 colourful autumn leaves that he wants to arrange into 24 equal decorative bundles. Finally, Max is selling handmade wooden whistles. He has 1,584 whistles to sell over 16 days of the market. He wants to sell an equal number of whistles each day to ensure he doesn't run out.

*Word bank: divisor · dividend · quotient · remainder · calculate · exchange*

**1. How many gift bags can Max fill with his 2,856 acorns if each bag holds 12 acorns? (2 marks)**

**2. How many leaves will be in each of the 24 decorative bundles if he divides the 3,432 leaves equally? (2 marks)**

**3. If Max sells the 1,584 whistles equally over 16 days, how many whistles should he sell each day? (2 marks)**

**4. Max finds a box of 4,032 sunflower seeds. If he shares these equally among 32 gardening clubs, how many seeds does each club receive? (2 marks)**

**5. Explain why it is important to check your answer using multiplication after completing a long division calculation. (2 marks)**

**Draw: Draw a picture of Max the monkey standing at his market stall, surrounded by neat piles of acorns and bundles of leaves, showing he is organised with his maths.**

*Extension challenge: Max finds a box of 2,500 pebbles. If he packs them into bags of 15, how many full bags will he have and how many pebbles will be left over as a remainder?*