

Year 6 Maths Assessment: Division Mastery

Learning objective: To solve problems involving division, including using formal written methods (long division) and interpreting remainders.

Read each question carefully. Show your working out for all calculations, as method marks may be awarded. Use the £ symbol where appropriate for currency questions.

Max the monkey is organising a fruit festival. He has 1,248 bananas to share equally among 24 hungry monkeys. He also has a total of £450 from ticket sales to split equally between 15 different charities. Meanwhile, Pip the caterpillar is packing 350 books into crates, with each crate holding 12 books.

Word bank: Dividend · Divisor · Quotient · Remainder · Long division · Calculation · Estimation

1. Using formal long division, calculate how many bananas each monkey receives. Show your working out. (3 marks)

2. How much money does each of the 15 charities receive from the £450 ticket sales? (2 marks)

3. Pip needs to pack 350 books into crates. Each crate holds 12 books. How many full crates will Pip have, and how many books will be left over? (3 marks)

4. A box of mixed nuts costs £14. If Zara has £350, how many full boxes can she buy? Give your answer as a whole number. (3 marks)

5. Explain the difference between a remainder expressed as a fraction and a remainder expressed as a decimal. Give an example for 15 divided by 4. (4 marks)

6. Max thinks that 2,880 divided by 30 is the same as 288 divided by 3. Is he correct? Explain your reasoning using your knowledge of place value. (5 marks)

7. Write a word problem where the answer requires you to round the remainder up to the next whole number. (5 marks)

Draw: Draw a visual representation of 20 divided by 4 using a group of 4 of Max's monkey friends sharing a pile of bananas.



Extension challenge: Total: /25