

Max's Division Challenge

Learning objective: To solve division problems involving 4-digit numbers by 2-digit numbers, including using the formal written method of long division and interpreting remainders.

Help Max the monkey solve these division puzzles. Use the formal written method (long division) to show your working out for each calculation. Remember to check if you need to express your remainder as a fraction or a decimal where appropriate.

Word bank: dividend · divisor · quotient · remainder · long division · estimate · calculation · multiples

1. Max has 2,496 bananas to share equally between 12 boxes. How many bananas go into each box? (2 marks)

2. Calculate $4,368 \div 14$. Show your full working out. (2 marks)

3. A charity fundraiser raised £5,850. If this is shared equally among 25 local clubs, how much money does each club receive? (2 marks)

4. Solve $7,245 \div 21$. Write your answer as a whole number with a remainder. (2 marks)

5. Max buys 32 packs of stickers for £672. How much does one pack cost? If he had £700, how many packs could he buy and how much change would he have left? (3 marks)

Draw: Draw Max the monkey sitting at a desk surrounded by piles of banana boxes, with a chalkboard showing a long division sum.



Extension challenge: Max has 1,500 stickers. He wants to put them into envelopes that hold 15 stickers each. If he fills 80 envelopes, how many stickers are left over? Write a word problem of your own that requires dividing a 4-digit number by a 2-digit number.