Max’s Magnificent Long Division Challenge

Learning objective: To solve long division problems using the formal written method, including remainders as fractions or decimals.

Help Max the monkey solve his jungle maths puzzles! Use the formal long division method to work out the answers. For questions with remainders, write them as fractions.

Answer Key: 1. B (12); 2. A (34); 3. True; 4. False; 5. 23; 6. 18 r 4 or 18 4/12 (18 1/3); 7. 45; 8. £12; 9. 15; 10. False. Max’s division strategy is to always estimate first to check if his quotient is sensible!

Word bank: Dividend · Divisor · Quotient · Remainder · Long Division · Estimate

1. 1. Max has 156 bananas to share equally between 13 monkeys. How many bananas does each monkey get? A) 11 B) 12* C) 13 D) 14 (1 mark)

2. 2. Calculate 850 ÷ 25. A) 34* B) 36 C) 44 D) 46 (1 mark)

3. 3. True or False: In the calculation 500 ÷ 20, the quotient is 25. (1 mark)

4. 4. True or False: When dividing by a 2-digit number, the remainder can be larger than the divisor. (1 mark)

5. 5. Solve: 621 ÷ 27 = ? (1 mark)

6. 6. Solve: 220 ÷ 12 = ? (Write your answer as a whole number with a remainder). (1 mark)

7. 7. If a school spends £945 on 21 new books, how much does each book cost? £____ (1 mark)

8. 8. Max has £180 to buy 15 packs of stickers. How much does each pack cost? £____ (1 mark)

9. 9. Calculate: 390 ÷ 26 = ? (1 mark)

10. 10. True or False: The 'divisor' is the number you are dividing into. (1 mark)

Draw: Draw Max the monkey sitting under a banyan tree with a chalkboard, carefully writing out a long division calculation with chalk.

Extension challenge: Max has 450 climbing ropes that are 15 metres long each. If he lays them all end-to-end, what is the total length in metres? Explain your method.