Max’s Multiplication Marathon

Learning objective: To multiply multi-digit numbers up to four digits by a two-digit whole number using the formal written method of long multiplication.

Show your full working out for each calculation. Remember to use a placeholder zero when multiplying by the tens digit.

Max the monkey is organising his collection of fruit snacks for the jungle picnic. Help him solve these calculations to ensure every friend gets their fair share!

Word bank: multiplicand · multiplier · product · placeholder · column · calculation · regrouping

1. Max has 24 boxes of bananas. Each box contains 36 bananas. How many bananas does Max have in total? (2 marks)

2. Calculate 412 × 27 using the formal long multiplication method. (2 marks)

3. The jungle library is buying 15 new sets of encyclopaedias. Each set costs £84. What is the total cost for the library? (2 marks)

4. Find the product of 1,245 and 32. (3 marks)

5. A shipment of 23 crates arrives at the harbour. Each crate weighs 456kg. What is the total weight of the shipment? (3 marks)

Draw: Draw Max the monkey standing next to a neat pile of numbered crates, showing how he organises his maths puzzles.

Extension challenge: Max finds a mystery number. When he multiplies it by 12, the answer is 1,500. Can you use inverse operations to find the mystery number?