

Mastering Multiplication: The Max and Zara Challenge

Learning objective: To multiply numbers up to 4 digits by a one or two-digit number using a formal written method, and to solve multi-step problems involving multiplication.

Use these flashcards to test your knowledge of multiplication methods and terminology. Max the monkey has provided the mathematical puzzles, while Zara the zebra has illustrated the patterns found within them.

What is the product of 432 and 6?

2,592

Define the term 'Factor'.

A number that divides exactly into another number without leaving a remainder.

Calculate 24×15 using long multiplication.

360

If Max buys 12 packs of stickers costing £1.25 each, what is the total cost?

£15.00

Explain why 15×8 is the same as 8×15 .

Multiplication is commutative, meaning the order of the factors does not change the product.

What is the result of 1,204 multiplied by 7?

8,428

Estimate the product of 49 and 52 by rounding to the nearest ten.

$50 \times 50 = 2,500$

If a rectangle has a width of 14cm and a length of 26cm, what is its area?

364cm^2

What does 'regrouping' mean in long multiplication?

Carrying over a value (e.g., tens or hundreds) to the next column when a column sum exceeds 9.

Calculate $3,412 \times 4$.

13,648

Why is it important to place a placeholder zero when multiplying by the tens digit in long multiplication?

To represent that you are multiplying by a multiple of ten, ensuring the digits align with their correct place value.

Zara has 18 boxes with 24 buttons in each. How many buttons does she have in total?

432