

Instructions: Patterns when using a grid to multiply pairs of two-digit numbers

Work in pairs to follow these instructions.

- Use the grid method to work out 24×36 . Compare all the calculations. What do you notice about two of the products?
- Use the grid method to work out 21×63 . Compare the calculations. What do you notice about two of the products?
- Try working out 24×48 and compare the calculations.
- Now try 34×68 . Have a discussion about what patterns you notice.
- Can you see what it is about the digits of the two numbers being multiplied that gives this pattern in the answers?

Hint: Look at the first digit in the first number and the second digit in the second number.

Then look at the second digit in the first number and the first digit in the second number!

- Write four multiplications that you think will also produce the same pattern in the products. Use the grid method to work them out and check that they do.