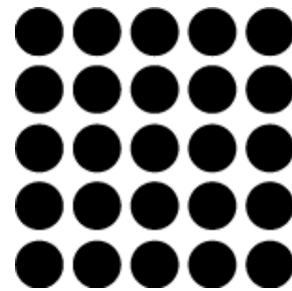


Learning about SQUARE NUMBERS

1. Look at this square pattern.



How many dots are there altogether?

Work out the answer to 5×5 .

What do you notice about your two answers?

A square number is made from multiplying a number by itself.

2. The first square number is 1 because $1 \times 1 = 1$

(a) What is the **second** square number?

(b) What is the **third** square number?

(c) **Draw a pattern** like the one above to show that 16 is a square number.

3. Copy and complete this table of square numbers

1x1	2x2	3x3	4x4	5x5	6x6	7x7	8x8	9x9	10x10
1			16				64		100

4. A square can be written like this : $16 = 4 \times 4 = 4^2$

Write the following square numbers in the same way

9 25 49 81 121

5. Work out the value of these

4^2 6^2 10^2 12^2

6. Work out the missing square numbers in this sequence

1 4 9 ___ 25 36 ___ ___ 81 100 ___ 144

CHALLENGE : WHAT NUMBER MULTIPLIED BY ITSELF MAKES 7225 ?

(You may need a calculator!)