Square numbers

Explanation

Square numbers are the result of multiplying a number by itself.
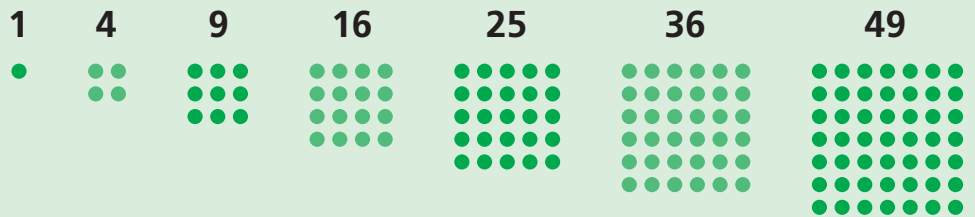
Example $1 \times 1 = 1$, $2 \times 2 = 4$, $8 \times 8 = 64$, $10 \times 10 = 100$, $200 \times 200 = 40\,000$

We use a small raised ² to mean squared.

Example 3^2 means **3 squared**, or 3×3, which equals **9**; $5^2 = 5 \times 5 = 25$ and $10^2 = 10 \times 10 = 100$
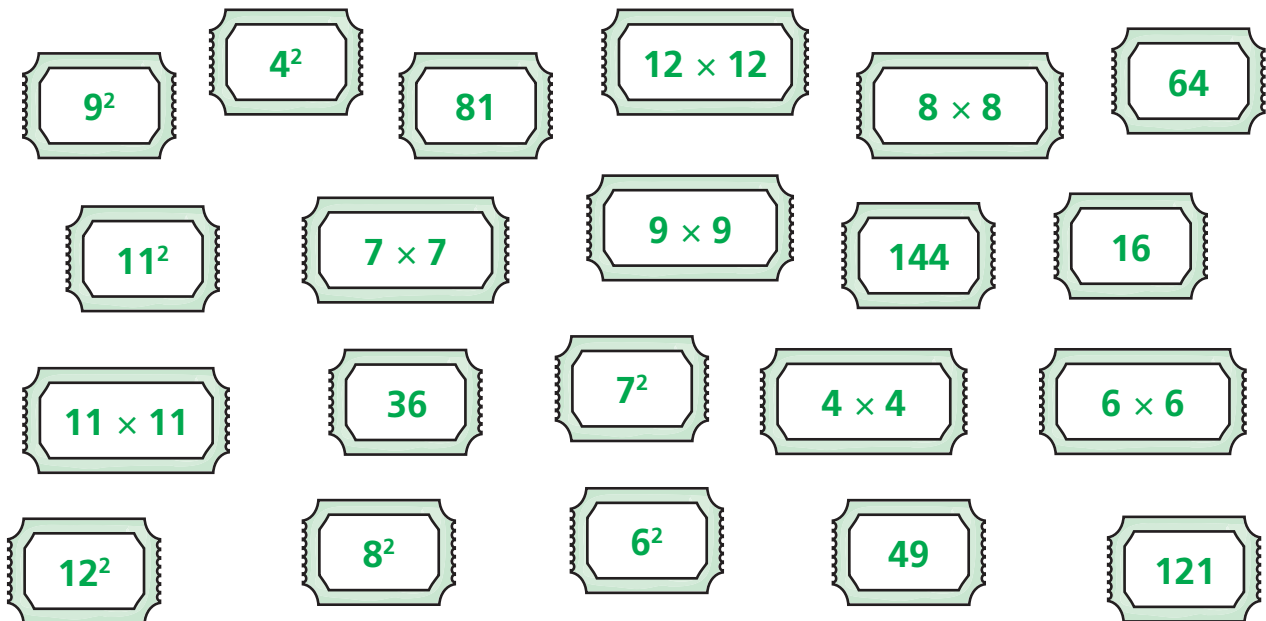
Did you know?

Square numbers are called square because they can be drawn as squares.

| 1 | 4 | 9 | 16 | 25 | 36 | 49 |

Activities

1 Join any tickets that show the same amount.

9^2	4^2	81	12×12	8×8	64
11^2	7×7	9×9	144	16
11×11	36	7^2	4×4	6×6
12^2	8^2	6^2	49	121

2 Find the lengths of the sides of these squares.

a Area = **25**cm²

b Area = **100**cm²

c Area = **81**cm²

d Area = **121**cm²

_____ _____ _____ _____