

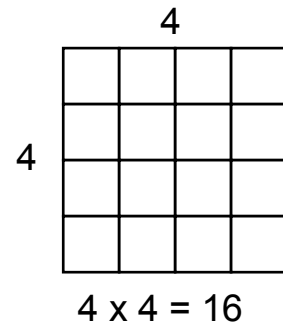
# Square Numbers

To square a number, we multiply it by itself.

eg. 4 squared (written as  $4^2$ ) =  $4 \times 4$

$$4^2 = 16$$

So, when a number is multiplied by itself, the answer is a 'square number'.



Square the following numbers:

1) 2

5) 15

2) 4

6) 18

3) 7

7) 20

4) 9

8) 30

Which numbers multiplied by themselves, give the following:

9) 1

13) 64

10) 9

14) 100

11) 25

15) 121

12) 36

16) 144

A square has four sides which are all the same length. Each angle is a right angle ( $90^\circ$ ).

What is the area of a square whose side is:

17) 6cm in length

19) 25cm in length

18) 8cm in length

20) 100cm in length

## Square Root

The square root sign is  $\sqrt{\quad}$  or  $\sqrt{\quad}$ .  $\sqrt{16}$  means the square root of 16.

$$4 \times 4 = 16$$

The square root of 16 is 4.

$$\sqrt{16} = 4$$

Find the square root of the following numbers:

21) 4

26) 49

22) 9

27) 64

23) 16

28) 64

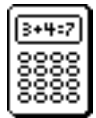
24) 25

29) 81

25) 36

30) 100

You may use a calculator for the following section!



31) Find which number, when multiplied by itself, gives 2809.

32) Find two consecutive numbers with a product of 9506.

33) The area of a square is  $256\text{cm}^2$ .

What is the length of its side?