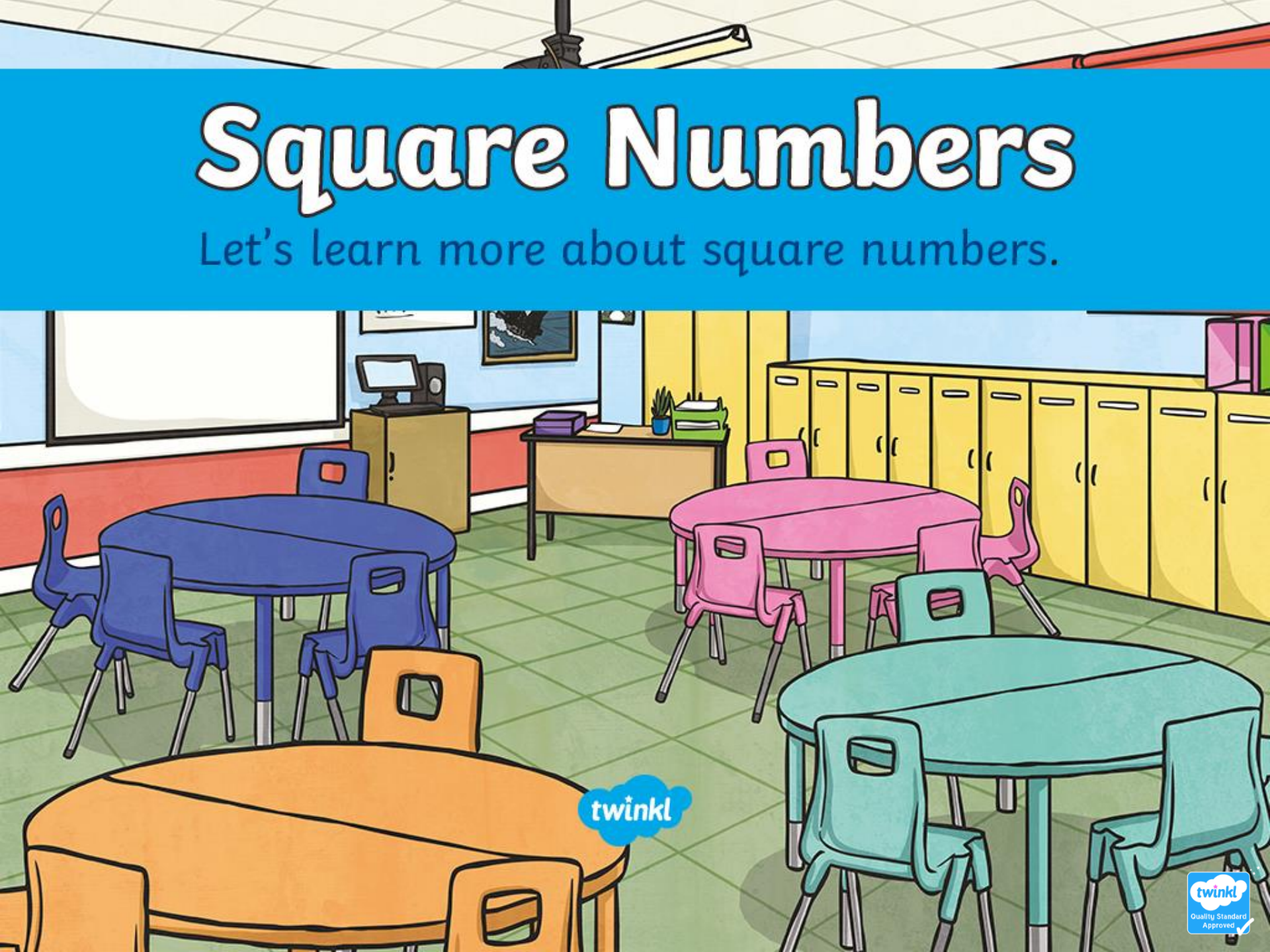
Square Numbers

Let's learn more about square numbers.



7^2 9^2 11^2 6^2 2^2 4^2

What is a Square Number?

A square number is the product you get when a number is multiplied by itself.

7^2 9^2 11^2 6^2 2^2 4^2

For Example...

$$2 \times 2 = 4$$

4 is a square number because it is the product of 2 multiplied by 2

7^2 9^2 11^2 6^2

2^2

$5 \times 5 = 25$

4^2

Can you explain why 25 is a square number?

25 is a square number because it is the product of 5 multiplied by 5.

7^2 9^2 11^2 6^2

2^2 **12 x 12 = 144** 4^2

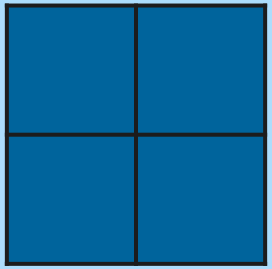
Can you explain why 144 is a square number?

144 is a square number because it is the product of 12 multiplied by 12.

7^2 9^2 11^2 6^2 2^2 4^2

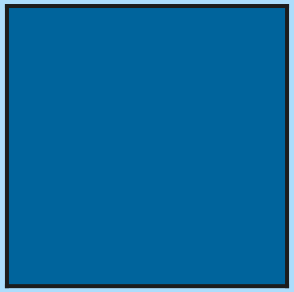
Where do square numbers get their name?

Square numbers get their name from the square shape they can make.



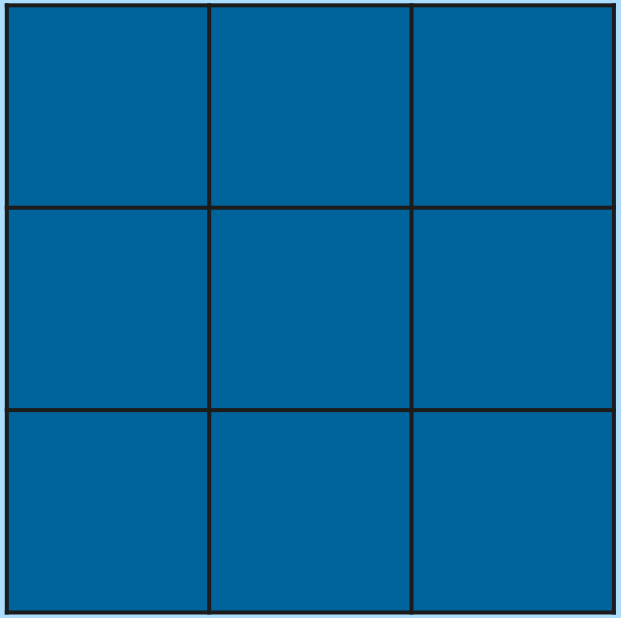
This square shows
2 x 2 = 4

Let's look at more square numbers!



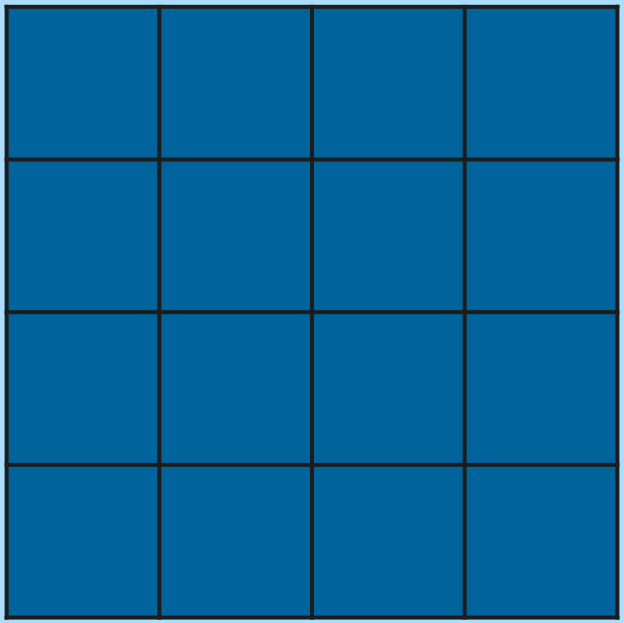
This shows 1 x 1 = 1

7^2 9^2 11^2 6^2 2^2 4^2



This shows 3 x 3 = 9

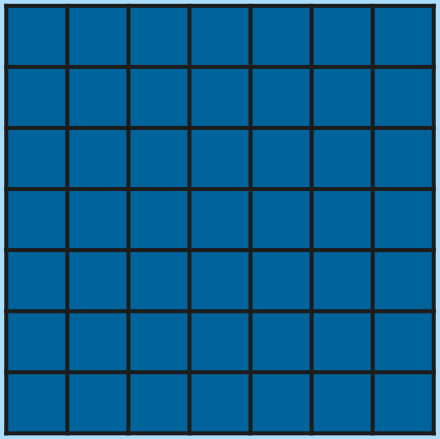
7^2 9^2 11^2 6^2 2^2 4^2



This shows 4 x 4 = 16

7^2 9^2 11^2 6^2 2^2 4^2

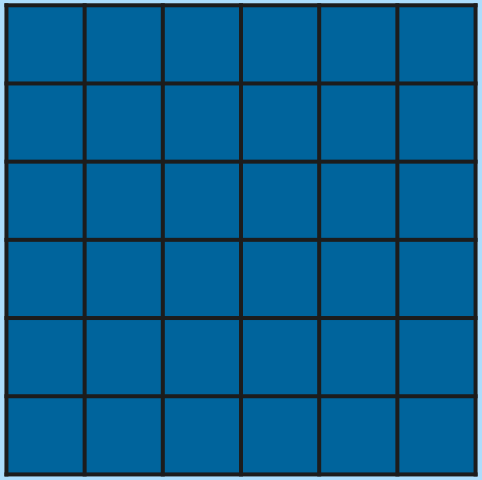
Can you work out what square number is illustrated here?



This shows 7 x 7= 49

7^2 9^2 11^2 6^2 2^2 4^2

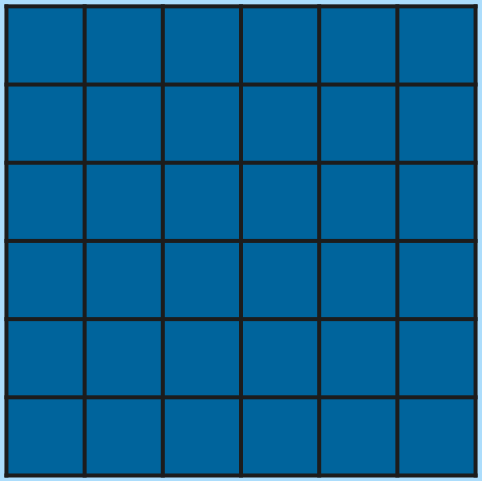
Can you work out what square number is illustrated here?



This shows 6 x 6 = 36

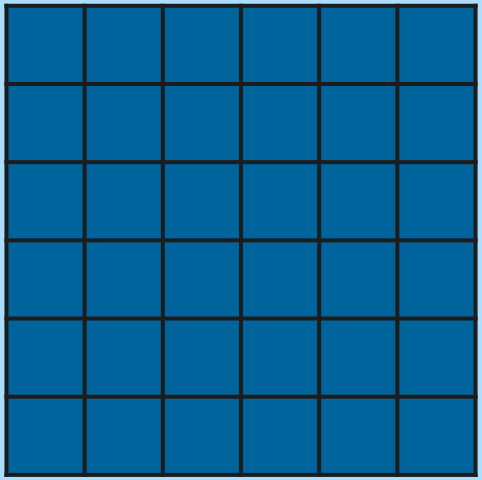
7^2 9^2 11^2 6^2 2^2 4^2

6 x 6 = 36



We can also write this as $6^2 = 36$

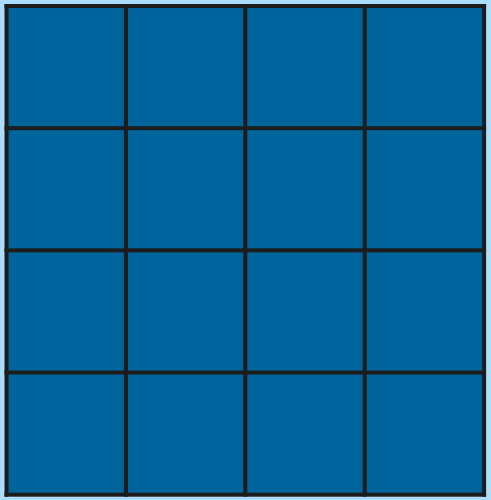
7^2 9^2 11^2 6^2 2^2 4^2



If 6 x 6 = 36 we can say that the square root of 36 is 6.

This is how we write it, $\sqrt{36} = 6$

7^2 9^2 11^2 6^2 2^2 4^2

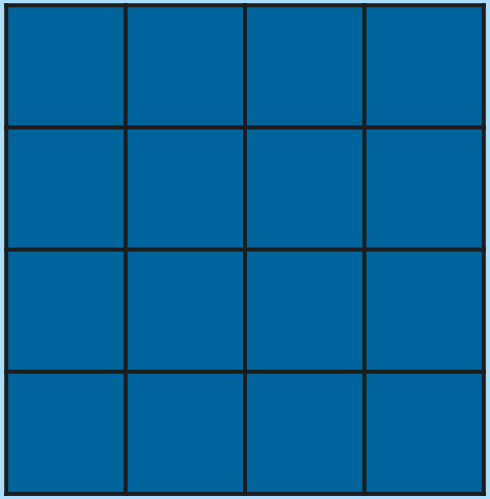


$4 \times 4 = 16$

or

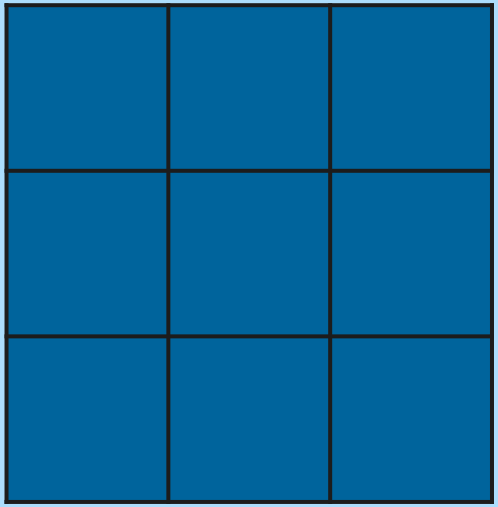
$4^2 = 16$

What is the square root of 16?



$4^2 = 16$, therefore $\sqrt{16} = 4$

7^2 9^2 11^2 6^2 2^2 4^2

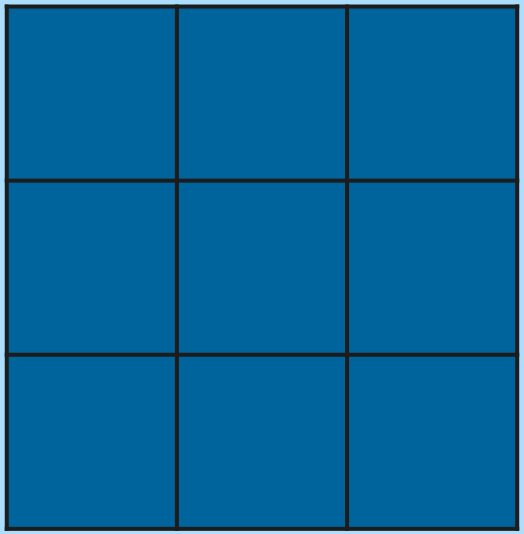


$3 \times 3 = 9$

or

$3^2 = 9$

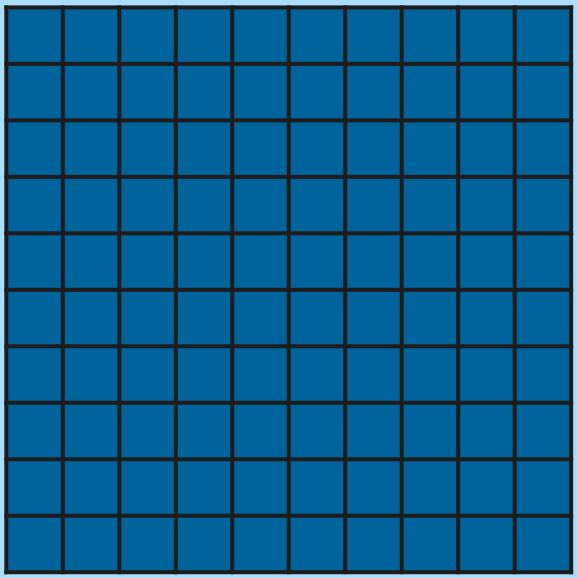
What is the square root of 9?



$3^2 = 9$, therefore $\sqrt{9} = 3$

7^2 9^2 11^2 6^2 2^2 4^2

Can you figure out the blanks below using this illustration to help?



$10^{\ 2} = 100$

therefore

$\sqrt{100} = 10$

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