



St Bernadette's Catholic Primary School

Key Instant Recall Facts

Year 5 - Spring 2

I can recall square numbers up to 122 and their square roots.

By the end of this half term, children should know the following facts. The aim is for them to **recall these facts instantly**. Children should also be able to recognise whether a number below 150 is a square number or not.

$$\sqrt{4} = 2$$



$$2^2 \text{ or } 2 \times 2 = 4$$

$$\sqrt{9} = 3$$



$$3^2 \text{ or } 3 \times 3 = 9$$

$$\sqrt{16} = 4$$



$$4^2 \text{ or } 4 \times 4 = 16$$

$$\sqrt{25} = 5$$



$$5^2 \text{ or } 5 \times 5 = 25$$

$$\sqrt{36} = 6$$



$$6^2 \text{ or } 6 \times 6 = 36$$

A **SQUARE** number is the product of a number multiplied by itself, e.g. 1, 4, 9, 16.

The **SQUARE ROOT** is a value that, when multiplied by itself, gives the number.

Key Vocabulary:

What is 9 **squared**?

What is 5 **multiplied by itself**?

What is the **square root** of 121?

Is 81 a square number? Prove it!

Helpful Hint!

The secret to success is little and often. Make sure that you use your time wisely! Can you practise your KIRFs whilst travelling to school? It might help to have a fact a day. Remember, you don't need to practise them all at once.

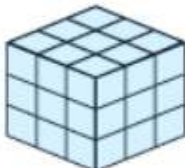
Secure with your square numbers and square roots? Have a go at investigating cubed numbers.



1 is the first cube number,
because $1 \times 1 \times 1 = 1$



8 is the second cube number,
because $2 \times 2 \times 2 = 8$



27 is the third cube number,
because $3 \times 3 \times 3 = 27$

Activity Ideas:

Hit the Button - Quick fire maths practise for 6-11 year olds (topmarks.co.uk) (You don't have to purchase it, just press play game and select the game that you wish to play)

Use BBC Bitesize to help develop your child to deepen their understanding [What is a square number and what is a cube number? - BBC Bitesize](#)

You could play the Square Pairs Game [Square Pairs Game \(transum.org\)](http://transum.org)

