Key Instant Recall Facts

Year 5 - Autumn 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**.

$ ^2 = \times = $	$\sqrt{1} = 1$
$2^2 = 2 \times 2 = 4$	$\sqrt{4} = 2$
$3^2 = 3 \times 3 = 9$	$\sqrt{9} = 3$
$4^2 = 4 \times 4 = 16$	$\sqrt{16} = 4$
5 ² = 5 × 5 = 25	$\sqrt{25} = 5$
$6^2 = 6 \times 6 = 36$	$\sqrt{36} = 6$
$7^2 = 7 \times 7 = 49$	$\sqrt{49} = 7$
$8^2 = 8 \times 8 = 64$	$\sqrt{64} = 8$
9 ² = 9 × 9 = 81	√81 = 9
$10^2 = 10 \times 10 = 100$	$\sqrt{100} = 10$
² =	$\sqrt{100} = 10$ $\sqrt{121} = 11$
1212 ^ 12 - 144	$\sqrt{121} = 11$ $\sqrt{144} = 12$
	V144 = 12

Key Vocabulary

What is 8 squared?

What is 7 multiplied by itself?

What is the square root of 144?

Is 81 a square number?

Children should also be able to recognise whether a number below 150 is a square number or not.

Top Tips

The secret to success is practising **little** and **often**. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day. If you would like more ideas, please speak to your child's teacher.

<u>Cycling Squares</u> — At http://nrich.maths.org/1151 there is a challenge involving square numbers. Can you complete the challenge and then create your own examples?

<u>Use memory tricks</u> – For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.