Key Instant Recall Facts

Year 5 – Summer 1

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**.

$1^2 = 1 × 1 = 1$
$2^2 = 2 × 2 = 4$
$3^2 = 3 × 3 = 9$
$4^2 = 4 × 4 = 16$
$5^2 = 5 × 5 = 25$
$6^2 = 6 × 6 = 36$
$7^2 = 7 × 7 = 49$
$8^2 = 8 × 8 = 64$
$9^2 = 9 × 9 = 81$
$10^2 = 10 × 10 = 100$
$11^2 = 11 × 11 = 121$
$12^2 = 12 × 12 = 144$

$\sqrt{1}$ =1
$\sqrt{4}$ =2
$\sqrt{9}$ =3
$\sqrt{16}$ =4
$\sqrt{25}$ =5
$\sqrt{36}$ =6
$\sqrt{49}$ =7
$\sqrt{64}$ =8
$\sqrt{81}$ =9
$\sqrt{100}$ =10
$\sqrt{121}$ =11
$\sqrt{144}$ =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**?

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.

Cycling Squares – At http://nrich.maths.org/1151 there is a challenge involving square numbers. Can your child complete the challenge and then create their own examples?

Use memory tricks – For those hard-to-remember facts, www.multiplication.com has some games for all multiplication facts too!