Key Instant Recall facts
Year 5 – Spring 1

By the end of this half term, children should know the following facts. The aim is for them to recall these facts instantly.

To identify prime numbers up to 20.

A prime number is a number with no factors other than itself and one.	Key Vocabulary
The following numbers are prime numbers: 2, 3, 5, 7, 11, 13, 17, 19	prime number
A composite number is divisible by a number other than 1 or itself.	composite number
	factor
The following numbers are composite numbers: 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20	multiple

Children should be able to explain how they know that a number is composite. E.g. 15 is composite because it is a multiple of 3 and 5.

To recall square numbers up to 144 and their square roots.

		Key Vocabulary
$1^2 = 1 \times 1 = 1$	$\sqrt{1} = 1$	
$2^2 = 2 \times 2 = 4$	$\sqrt{4} = 2$	
$3^2 = 3 \times 3 = 9$	$\sqrt{9} = 3$	What is 8 **squared**?
$4^2 = 4 \times 4 = 16$	$\sqrt{16} = 4$	
$5^2 = 5 \times 5 = 25$	$\sqrt{25} = 5$	What is 7 **multiplied by itself**?
$6^2 = 6 \times 6 = 36$	$\sqrt{36} = 6$	
$7^2 = 7 \times 7 = 49$	$\sqrt{49} = 7$	
$8^2 = 8 \times 8 = 64$	$\sqrt{64} = 8$	What is the **square root of** 144?
$9^2 = 9 \times 9 = 81$	$\sqrt{81} = 9$	
$10^2 = 10 \times 10 = 100$	$\sqrt{100} = 10$	
$11^2 = 11 \times 11 = 121$	$\sqrt{121} = 11$	Is 81 a **square number**?
$12^2 = 12 \times 12 = 144$	$\sqrt{144} = 12$	

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? If your child is not yet confident with their times tables, you may want to practise this first.

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