Key Instant Recall facts
Year 6 – 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 50.

	Key Vocabulary
A prime number is a number with no factors other than itself and one. The following numbers are prime numbers: 2, 3, 5, 7, 11, 13, 17, 19, 23, 27, 29, 31, 37, 41, 43, 47 A composite number is divisible by a number other than 1 or itself. The following numbers are composite numbers: 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20, 22, 24, 25, 26, 27, 28, 30, 32, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50	prime number composite number factor multiple

Children should be able to explain how they know that a number is composite.
e.g. 39 is composite because it is a multiple of 3 and 13.

To know the square roots of square numbers up to 15 x 15.

		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 5 **squared**?
$4^2 = 4 \times 4 = 16$	$\sqrt{16} = 4$	
$5^2 = 5 \times 5 = 25$	$\sqrt{25} = 5$	What is 8 **multiplied by**
$6^2 = 6 \times 6 = 36$	$\sqrt{36} = 6$	**itself**?
$7^2 = 7 \times 7 = 49$	$\sqrt{49} = 7$	
$8^2 = 8 \times 8 = 64$	$\sqrt{64} = 8$	What is the **square root**
$9^2 = 9 \times 9 = 81$	$\sqrt{81} = 9$	**of** 196?
$10^2 = 10 \times 10 = 100$	$\sqrt{100} = 10$	
$11^2 = 11 \times 11 = 121$	$\sqrt{121} = 11$	Is 81 a **square number**?
$12^2 = 12 \times 12 = 144$	$\sqrt{144} = 12$	
$13^2 = 13 \times 13 = 169$	$\sqrt{169} = 13$	
$14^2 = 14 \times 14 = 196$	$\sqrt{196} = 14$	
$15^2 = 15 \times 15 = 225$	$\sqrt{225} = 15$	

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

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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?