

Key Instant Recall Facts

Year Five – Spring 1

I can identify prime numbers up to 20.

I can recall square numbers up to 144 and their square roots.

By the end of this half term, children should know the following facts instantly.

A prime number is a number with no factors other than itself and one.	<u>Key vocabulary</u> Prime number	A square number is a number multiplied by itself:	These facts are related to the square roots: $\sqrt{1} = 1$
The following numbers are prime numbers: 2, 3, 5, 7, 11, 13, 17, 19	Composite number	$1 \times 1 = 1$	$\sqrt{4} = 2$
A composite number is divisible by a number other than 1 or itself.	Factor	$2 \times 2 = 4$	$\sqrt{9} = 3$
The following numbers are composite numbers: 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20	Multiple	$3 \times 3 = 9$	$\sqrt{16} = 4$
	<u>Key Questions:</u>	$4 \times 4 = 16$	$\sqrt{25} = 5$
	What is the only even prime number?	$5 \times 5 = 25$	$\sqrt{36} = 6$
	Most composite numbers are odd or even?	$6 \times 6 = 36$	$\sqrt{49} = 7$
		$7 \times 7 = 49$	$\sqrt{64} = 8$
		$8 \times 8 = 64$	$\sqrt{81} = 9$
		$9 \times 9 = 81$	$\sqrt{100} = 10$
		$10 \times 10 = 100$	$\sqrt{121} = 11$
		$11 \times 11 = 121$	$\sqrt{144} = 12$
		$12 \times 12 = 144$	

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 and has more than two factors.

Top Tips

The secret to success and putting these in your long term memory is working hard. To help do this, practise little and often. You don't need to practise them all at once: perhaps you could start with one particular fact and ensure they know all of them before moving onto another. Work on three facts a day, as it breaks up the memorising.

It's really important that your child uses mathematical vocabulary accurately. Choose a number between 2 and 20. How many correct statements can your child make about this number using the vocabulary above?

Make a set of cards for the numbers from 2 to 20. How quickly can your child sort these into prime and composite numbers?

How many even prime numbers can they find? How many odd composite numbers?

Games: <https://www.topmarks.co.uk/maths-games/hit-the-button>



