

Key Instant Recall Facts

Year 5 – Summer 1

Identify prime numbers up to 20.
Recall squared numbers and their associated roots.

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

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

All other numbers are composite numbers. They have more than 2 factors.
The following numbers are composite numbers: 4, 6, 8, 9, 10, 12, 14, 15, 16, 18, 20

To find the square numbers, multiply any number by itself.

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

The first square numbers are:
1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121 and 144

Key Vocabulary

Term	Definition	Example
factor	a number that divides exactly into another number	factors of 12 = 1, 2, 3, 4, 6, 12
common factor	factors of two numbers that are the same	common factors of 8 and 12 = 1, 2, 4
prime number	a number with only 2 factors: 1 and itself	2, 3, 5, 7, 11, 13, 17, 19...
composite number	a number with more than two factors	12 (it has 6 factors)
prime factor	a factor that is prime	prime factors of 12 = 2, 3

Important fact

1 can only be divided by one number, 1 itself, so with this definition 1 is not considered a prime number. 1 is also not a composite number.

- Although this video looks at numbers to 100, it explains prime numbers really well. [Prime number video](#)
- Create 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?
- Give a number up to 12 and ask your child to square it or give a number and ask for the square root.
- Play level 1 of this game: <https://www.transum.org/Maths/Game/Primes/Pick.asp>
- Worksheets available on KIRF page of school website.