Key Instant Recall Facts

Year 6 - Spring 1

Know prime numbers up to 100

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

The next step is to recall prime numbers to 100: 53, 59, 61, 67, 71, 73, 79, 83, 89, 97.

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, 21, 22, 24, 25, 26, 27, 28, 30, 32, 33, 34, 35, 36, 38, 39, 40, 42, 44, 45, 46, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 60, 62, 63, 64, 65, 66, 68, 69, 70, 72, 74, 75, 76, 77, 78, 80, 81, 82, 84, 85, 86, 87, 88, 90, 91, 92, 93, 94, 95, 96, 98, 99, 100

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
multiple	a number in another number's times table	multiples of 9 = 9, 18, 27, 36...
common multiple	multiples of two numbers that are the same	common multiples of 4 and 6 = 12, 24...
square numbers	the result when a number has been multiplied by itself	25 ($5^2 = 5 \times 5$) 49 ($7^2 = 7 \times 7$)
cube numbers	the result when a number has been multiplied by itself 3 times	8 ($2^3 = 2 \times 2 \times 2$) 27 ($3^3 = 3 \times 3 \times 3$) .

Things to try

- Note - 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.
- Vocabulary - It's really important that your child uses mathematical vocabulary accurately. Can they give definitions for the key words and give examples? Choose a number between 2 and 20. How many correct statements can your child make about this number using the vocabulary above?
- Make - Create a set of cards for the numbers from 2 to 100. 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?
- Play – There are some superb games online such as this one, where children have to 'pick' the primes. https://www.transum.org/Maths/Game/Primes/Pick.asp

Top tips
The secret to success is practising little and often .
Use your time wisely.
Can you practise these KIRFs while walking to school or during a car journey?