



# KIRF: I can recall all the prime numbers to 50.

This half term, the children will be learning to recall square numbers up to 122 instantly. Square numbers have an odd number of factors and are the result of multiplying a whole number by itself.

**PRIME NUMBERS**

The numbers shown in yellow are all prime numbers. 1 is not a prime number!

To test if a number is a prime, divide it by 2, 3, 5, 7, 9 or 11.

Prime numbers are numbers (greater than 1) that cannot be divided by any number except themselves and one.

7 is a prime number because it can only be divided by 7 and 1.

70 is not a prime number because it can be divided by 70, 35, 14, 10, 7, 5, 2 and 1!

**Key Vocabulary:**

- prime
- composite - numbers that have more than two factors
- factors - numbers that divide another number, leaving no remainder

What are the factors of ...  
Which of these numbers are prime/composite? How do you know?

**What can this look like?  
Concrete, Pictorial Abstract:**

1 row of 5

The only factors of 5 are 1 and 5

5 is a prime number

Integers that have exactly two factors are called **Prime Numbers**

11 ●●●●●●●●●●

One rectangular array.

13 ●●●●●●●●●●●

One rectangular array.

Is 29 a prime number?  
How do you know?

**Activity ideas:**

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? You don't need to practise them all at once: perhaps you could have a fact of the day.

Create a board game or a treasure hunt related to prime numbers.

Make some flashcards and ask a family member to test you- how quickly can you identify which are prime and which are composite?

Make up a song about the prime numbers. Perhaps you could sing the prime numbers to a famous tune

Play 'Ping Pong' with a partner: Take it in turns to count up in prime numbers.

**Websites:**

[TTrockstars](#) Children all have their username and password to practice in the "Garage" and the "Arena".

[MyMaths](#) Children will be set weekly home learning

[BBC- prime numbers](#)

[Pick the Primes](#)

[Ninja Primes](#)