

Key Instant Recall Facts Year Five – Summer 1

I can recall square numbers up to 12 x 12 and their square roots.

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

$$1^2 = 1 \times 1 = 1$$

$$\sqrt{1} = 1$$

$$2^2 = 2 \times 2 = 4$$

$$\sqrt{4} = 2$$

$$3^2 = 3 \times 3 = 9$$

$$\sqrt{9} = 3$$

$$4^2 = 4 \times 4 = 16$$

$$\sqrt{16} = 4$$

$$5^2 = 5 \times 5 = 25$$

$$\sqrt{25} = 5$$

$$6^2 = 6 \times 6 = 36$$

$$\sqrt{36} = 6$$

$$7^2 = 7 \times 7 = 49$$

$$\sqrt{49} = 7$$

$$8^2 = 8 \times 8 = 64$$

$$\sqrt{64} = 8$$

$$9^2 = 9 \times 9 = 81$$

$$\sqrt{81} = 9$$

$$10^2 = 10 \times 10 = 100$$

$$\sqrt{100} = 10$$

$$11^2 = 11 \times 11 = 121$$

$$\sqrt{121} = 11$$

$$12^2 = 12 \times 12 = 144$$

$$\sqrt{144} = 12$$

Key Vocabulary

What is 7 squared?

What is 7 multiplied by itself?

What is square root of 144?

Is 30 a square number?

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

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 you would like more ideas, please speak to your child's teacher.

Play Games – You can play games online to recall square numbers such as Hit the Button, <https://www.topmarks.co.uk/maths-games/hit-the-button>. See how many questions you can answer in just one minute. Timestable Rock Stars is also good for practising the multiplication facts needed in order to recall square numbers.

Think of the question – One player thinks of a square or square root question (8x8) and states the answer. (64) The other player has to guess the original question.