



Hippings Methodist Primary School

Key Instant Recall Facts Year 5 – Summer 1

I can recall square numbers up to 12^2 and their square roots

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

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

$$\begin{aligned}\sqrt{1} &= 1 \\\sqrt{2} &= 4 \\\sqrt{3} &= 9 \\\sqrt{4} &= 16 \\\sqrt{5} &= 25 \\\sqrt{6} &= 36 \\\sqrt{7} &= 49 \\\sqrt{8} &= 64 \\\sqrt{9} &= 81 \\\sqrt{10} &= 100 \\\sqrt{11} &= 121 \\\sqrt{12} &= 144\end{aligned}$$

Key Vocabulary

What is 7 **squared**?

What is 7 **multiplied by itself**?

What is the **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? You do not need to practise them all at once; perhaps you could have a fact of the day? If you would like more ideas, please speak to your child's teacher.

Play online – Your child should already be accessing Times Tables Rock Stars regularly at www.ttrockstars.com. Please contact their teacher if you have misplaced their log-in details. They can also visit www.timestables.co.uk and www.timestables.me.uk

Cycling squares – At <http://nrich.maths.org/1151> there is a challenge involving square numbers. Can you complete the challenge and then create your own examples?