

Key Instant Recall Facts

Year 5 – Summer 2



I can recall square numbers up to 12² 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**.

| $1^2 = 1 \times 1 = 1$ | v1 = 1 |
|---------------------------------|-------------------|
| $2^2 = 2 \times 2 = 4$ | √ 4 = 2 |
| $3^2 = 3 \times 3 = 9$ | √ 9 = 3 |
| $4^2 = 4 \times 4 = 16$ | √16 = 4 |
| 5 ² = 5 x 5 = 25 | √25 = 5 |
| $6^2 = 6 \times 6 = 36$ | √36 = 6 |
| $7^2 = 7 \times 7 = 49$ | √ 49 = 7 |
| 8 ² = 8 x 8 = 64 | √64 = 8 |
| 9 ² = 9 x 9 = 81 | √81 = 9 |
| $10^2 = 10 \times 10 = 100$ | √ 100 = 10 |
| 11 ² = 11 x 11 = 121 | √ 121 = 11 |
| $12^2 = 12 \times 12 = 144$ | √144 = 12 |



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.

<u>**Online games**</u> – You can use Education City songs and websites www.timestables.co.uk and www.timestables.me.uk

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

Use memory tricks – For those hard-to-remember facts,

www.multiplication.com has some strange picture stories to help children remember.