

# Key Instant Recall Facts

## Year 5 - Summer 1

### I can recall square numbers up to 12<sup>2</sup> 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**.

| $\sqrt{1} = 1$    |
|-------------------|
| $\sqrt{4} = 2$    |
| $\sqrt{9} = 3$    |
| $\sqrt{16} = 4$   |
| $\sqrt{25} = 5$   |
| $\sqrt{36} = 6$   |
| · <u></u>         |
| $\sqrt{49} = 7$   |
| $\sqrt{64} = 8$   |
| $\sqrt{81} = 9$   |
| $\sqrt{100} = 10$ |
| $\sqrt{121} = 11$ |
| $\sqrt{144} = 12$ |
|                   |

#### **Key Vocabulary**

What is 8 **squared**?

What is 7 multiplied by itself?

What is the **square root** of 144?

Is 81 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 don't 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>Cycling Squares</u> – At <a href="http://nrich.maths.org/1151">http://nrich.maths.org/1151</a> there is a challenge involving square numbers. Can you complete the challenge and then create your own examples?

<u>Use memory tricks</u> – For those hard-to-remember facts, <u>www.multiplication.com</u> has some strange picture stories to help children remember.

<u>Square number bubble game</u> - <u>https://www.mathematics-monster.com/tests/bubble pop square numbers test.html</u>