

Key Instant Recall Facts

Year 5 - Summer 1

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**.

$ 2 = \times = $	$\sqrt{\Box 1} = 1$
$2^2 = 2 \times 2 = 4$	• — — –
$3^2 = 3 \times 3 = 9$	$\sqrt{\Box 4} = 2$
$4^2 = 4 \times 4 = 16$	<i>(</i> —
$5^2 = 5 \times 5 = 25$	$\sqrt{\Box 9} = 3$
$6^2 = 6 \times 6 = 36$	$\sqrt{\Box 16} = 4$
$7^2 = 7 \times 7 = 49$	_
$8^2 = 8 \times 8 = 64$	$\sqrt{\Box 25} = 5$
$9^2 = 9 \times 9 = 81$	<u> </u>
$0^2 = 10 \times 10 = 100$	<i>√</i> □36 = 6
$ ^2 = \times = 2 $	√ <u>□</u> 49 = 7
$2^2 = 12 \times 12 = 144$	· _
	<i>√</i> □64 =8

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. $\sqrt{100} = 10$

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The secret to success is practising with 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 http://nrich.maths.org/1151 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, www.multiplication.com has some strange picture stories to help children remember.