

Year 5 - Spring 2

I can recall square numbers up to 12^2 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**.

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

<i>J</i> 1 = 1
√4 = 2
<i>√</i> 9 = 3
√16 = 4
√25 = 5
√36 = 6
<i>√</i> 49 = 7
<i>√</i> 64 = 8
√81 = 9
√100 = 10
√121 = 11
√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 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 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.