Key Instant Recall Facts

Year 5 – Summer 1

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

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

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

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

- 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?

Key Instant Recall Facts

Year 5 – Summer 2

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

I can find factor pairs of a number.

Children should now know all multiplication and division facts up to 12 x 12. When given a number in one of these times tables, they should be able to state a factor pair which multiply to make this number. Below are some examples:

24 = 4 x 6	42 = 6 x 7
24 = 8 x 3	25 = 5 x 5
56 = 7 x 8	84 = 7 x 12
54 = 9 x 6	15 = 5 x 3

Key Vocabulary

Find a **factor** of 28.

Find two numbers whose **product** is 20.

I know that 6 is a **factor** of 72 because 6 **multiplied** by 12 equals 72.

Top Tips

- Think of the question - One player thinks of a times table question (e.g. 4 x 12) and states the answer. The other player has to guess the original question.
- Use memory tricks - For those hard-to-remember facts, www.multiplication.com has some strange picture stories to help children remember.