Kirk Fenton CE PRIMARY SCHOOL

## Key Instant Recall Facts Year 5 - Spring 2

I can recall square numbers up to $12 \times 12$ and their square roots.
By the end of this half term children need to be able to instantly recall the following facts

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

## Key Vocabulary

- What is 8 squared?
- What is 7 multiplied by itself?
- What is the square root of 144?
- Is 81 a square number? How do you know?
- What is a squared number?
- What is a cubed number?

Things to try

- 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?
- Songs and Chants - Listen to fun multiplication songs and chants online such as: https://www.youtube.com/watch?v=aJXnJ2aOAOE You could even create your own song! If your child creates their own song, this can make the times tables even more memorable.
- Play games - Play 'hit the button'. Available for free online or as a paid app. https://www.topmarks.co.uk/mathsDgames/hit-the-button
- Use TTR to support times tables knowledge.


## Top tips

The secret to success is practising little and often. Use your time wisely.
Can you practise these KIRFs while walking to school or during a car journey?

