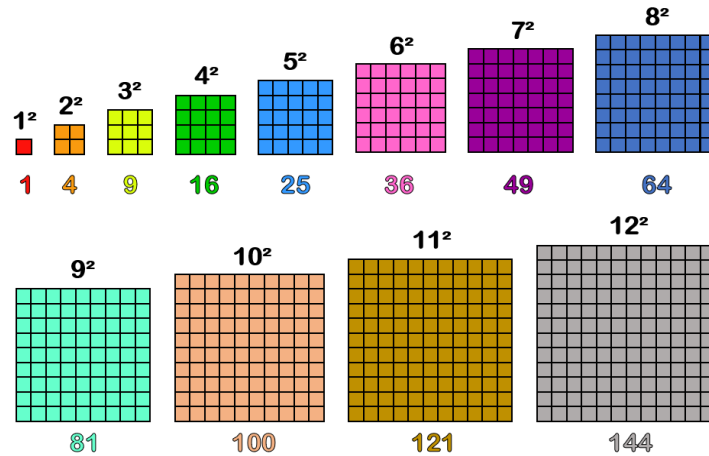


KIRF: Know square numbers up to 12^2 and their square root $\sqrt{\quad}$



Pupils need to be able to square numbers up to 12×12 and recognise their square root.

What can this look like?



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

Questions to ask at home

What is 6^2 ?
What is 4^3 ?
What is $2 \times 2 \times 2 = ?$
What is the square root of 81?

Key vocabulary

3 squared is 9
 3×3 is the same as 3^2
 $3 \times 3 \times 3$ is the same as 3^3
9 is the square root of 81.

Things to try

Chanting: Say a number between 1 and 12, and others race to shout the square of that number. Make it competitive or play in teams.

Guess My Number! Call out a square number – for example, 144 – and pupils have to guess the square root.

Websites:

<https://www.topmarks.co.uk/maths-games/hit-the-button>

<https://wordwall.net/resource/9919606/whack-a-square>