



Key Instant Recall Facts

Year 6 – Autumn Term Two



I know the square numbers up to 225 and their square roots.
I can recall prime numbers up to 50.

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

Prime Numbers to 50

Square Numbers

| |
|----------------------|
| $1 \times 1 = 1$ |
| $2 \times 2 = 4$ |
| $3 \times 3 = 9$ |
| $4 \times 4 = 16$ |
| $5 \times 5 = 25$ |
| $6 \times 6 = 36$ |
| $7 \times 7 = 49$ |
| $8 \times 8 = 64$ |
| $9 \times 9 = 81$ |
| $10 \times 10 = 100$ |
| $11 \times 11 = 121$ |
| $12 \times 12 = 144$ |
| $13 \times 13 = 169$ |
| $14 \times 14 = 196$ |
| $15 \times 15 = 225$ |

Square Roots

| |
|-------------------|
| $\sqrt{1} = 1$ |
| $\sqrt{4} = 2$ |
| $\sqrt{9} = 3$ |
| $\sqrt{16} = 4$ |
| $\sqrt{25} = 5$ |
| $\sqrt{36} = 6$ |
| $\sqrt{49} = 7$ |
| $\sqrt{64} = 8$ |
| $\sqrt{81} = 9$ |
| $\sqrt{100} = 10$ |
| $\sqrt{121} = 11$ |
| $\sqrt{144} = 12$ |
| $\sqrt{169} = 13$ |
| $\sqrt{196} = 14$ |
| $\sqrt{225} = 15$ |

| |
|----|
| 2 |
| 3 |
| 5 |
| 7 |
| 11 |
| 13 |
| 17 |
| 19 |
| 23 |
| 27 |
| 29 |
| 31 |
| 37 |
| 41 |
| 43 |
| 47 |

Key Vocabulary

A square number is a number multiplied by itself.

A prime number is a number which is only divisible by 1 and itself.

What is the square root of 169?

What is 12 squared?

Top Tips and Helpful Hints

The secret to success is practising little and often. Use time wisely. Can you practise these facts while walking to school or during a car journey? You don't need to practise them all at once; perhaps you could learn a couple of new facts each day.

100 Square – Colour in the square numbers. Is there a pattern? Can you explain it? Can you use this to predict any more square numbers?

Play games – Make some number cards with the squared numbers and their square roots. Use these to play the memory game or snap.

Ping Pong – In this game, the parent says, 'Ping' and the child replies, 'Pong'. Then the parent says a number and the child says the squared number. For an alternative version, the adult can say 'Pong', the child replies, 'Ping' and then the adult says a number and the child says the square root.

Online Games - <https://www.topmarks.co.uk/maths-games/hit-the-button> Choose the square numbers section. Can you beat your score each time?

<https://www.transum.org/Maths/Game/Primes/Pick.asp>

Word Problems – Can you create some word problems involving square numbers and square roots? E.g. 8 people paid £8 each for cinema tickets. How much did they pay altogether? If 12 people paid £144 for tickets altogether, how much was each ticket?