## Key Instant Recall Facts

## Year 6 Summer 2

We believe that the rapid recall of key facts underpins the success and progress of all in maths. Children will be introduced to their key facts at the beginning of each half term and then practise them regularly in class. Children will also be expected to practise these key facts at home.

The key fact this half term is
To find the square root of a number

|  | $1^{2}=1 \times 1=1$ | $\sqrt{1}=1$ | Key Vocabulary |
| :---: | :---: | :---: | :---: |
|  | $2^{2}=2 \times 2=4$ | $54=2$ | What is 10 squared? |
|  | $3^{2}=3 \times 3=9$ | $59=3$ | What is $\mathbf{1 2}$ multiplied by itself? |
|  | $4^{2}=4 \times 4=16$ $5^{2}=5 \times 5=25$ | $\sqrt{16}=4$ $\sqrt{25}=5$ | What is the square root of 144? |
|  | $6^{2}=6 \times 6=36$ | $\sqrt{ } 36=6$ | Is 77 a square number? |
|  | $7^{2}=7 \times 7=49$ | 549 $=7$ |  |
|  | $8^{2}=8 \times 8=64$ | 「64 $=8$ | What is 13 the square root of? |
|  | $9^{2}=9 \times 9=81$ | 581-9 |  |
|  | $10^{2}=10 \times 10=100$ | $\sqrt{100}=10$ |  |
|  | $11^{2}=11 \times 11=121$ | $\sqrt{121}=11$ | A square root of a number is a value |
|  | $12^{2}=12 \times 12=144$ | Ј144 $=12$ | that, when multiplied by itself, gives a |
|  |  |  | square number |

Draw a square with sides bigger than 15 cm .

## MAKE IT FUN

This is a classroom. Can you fit in square furniture? Can you do it in such a way that there are no gaps and that the pieces of furniture are different sized squares?
https://nrich.maths.org/2275
How do you find the sum of consecutive odd numbers quickly?
Can you make square numbers by adding two prime numbers together?

## MAKE IT LINK

http://www.math-play.com/square-root-game.html
https://nrich.maths.org/2283
https://nrich.maths.org/2280

## DEEPEN IT

Is it always, sometimes or never true that when you square an even number, the result is divisible by 4? Explain your answer.
https://nrich.maths.org/1119
https://nrich.maths.org/8065

