

KIRF: I can recall all square numbers up to 122.

This half term, the children will be learning to recall square numbers up to 122 instantly. Square numbers have an odd number of factors and are the result of multiplying a whole number by itself.

A square number is a number	Notation- A symbol. The notation 2 means	Key Vocabulary :
multiplied by itself:	squared e.g. 25 is 5 squared, 5 × 5 = 25	What is 8 squared?
1 x 1 = 1	Square number- The result when a number h	has What is 7 multiplied by itself?
2 x 2 = 4	been multiplied by itself.	Is 81 a square number?
3 x 3 = 9		
4 x 4 = 16		
5 x 5 = 25		
6 x 6 = 36		
7 x 7 = 49		
8 x 8 = 64		
9 x 9 = 81		
10 x 10 = 100		
11 x 11 = 121		
12 x 12 = 144		
W/hat one this look like?		
what can this look like?		
Concrete, Pictorial Abstract:		
x 1 2 3 4 5 6 7 8 9 10 11 12		1 ² 1 x 1 1
1 1 2 3 4 5 6 7 8 9 10 11 12 2 2 4 4 5 6 7 8 9 10 11 12		2 ² 2 x 2 4
2 2 4 6 8 10 12 14 16 18 20 22 24 3 3 6 9 12 15 18 21 24 27 30 33 36		3 ² 3 x 3 9
4 4 8 12 16 20 24 28 32 36 40 44 48		4° 4 X 4 10 5 ² 5 x 5 25
5 10 15 20 25 30 35 40 45 50 55 60	$1 = 1^2$ $4 = 7^2$ $9 = 3^2$ $16 = 4^2$ $25 = 5^2$	6 ² 6 x 6 36
6 6 12 18 24 30 36 42 48 54 60 66 72	1-1 4-2 5-5 10-1 25-5	7 ² 7 x 7 49
7 7 14 21 28 35 42 49 56 63 70 77 84 8 8 16 24 32 40 48 56 64 72 80 88 96		8 ² 8 x 8 64
9 9 18 27 36 45 54 63 72 81 90 99 108		9 ² 9 x 9 81
10 10 20 30 40 50 60 70 80 90 100 110 120		10 ² 10 x 10 100
11 11 22 33 44 55 66 77 88 99 110 121 132		11 ² 11 x 11 121
12 12 24 36 48 60 72 84 96 108 120 132 144		12 ² 12 x 12 144

Activity ideas:

The secret to success is practising little and often. Use time wisely. Can you practise these KIRFs while walking to school or during a car journey? You don't need to practise them all at once: perhaps you could have a fact of the day.

Dice roll- whatever the number lands on, square it

Cards- turn a card over, square it and call out the answer. Can you say the answer quicker than your partner? **Websites:**

TTrockstars Children all have their username and password to practice in the "Garage" and the "Arena".

MyMaths Children will be set weekly home learning

Hit the button - Square Numbers

Whack a square