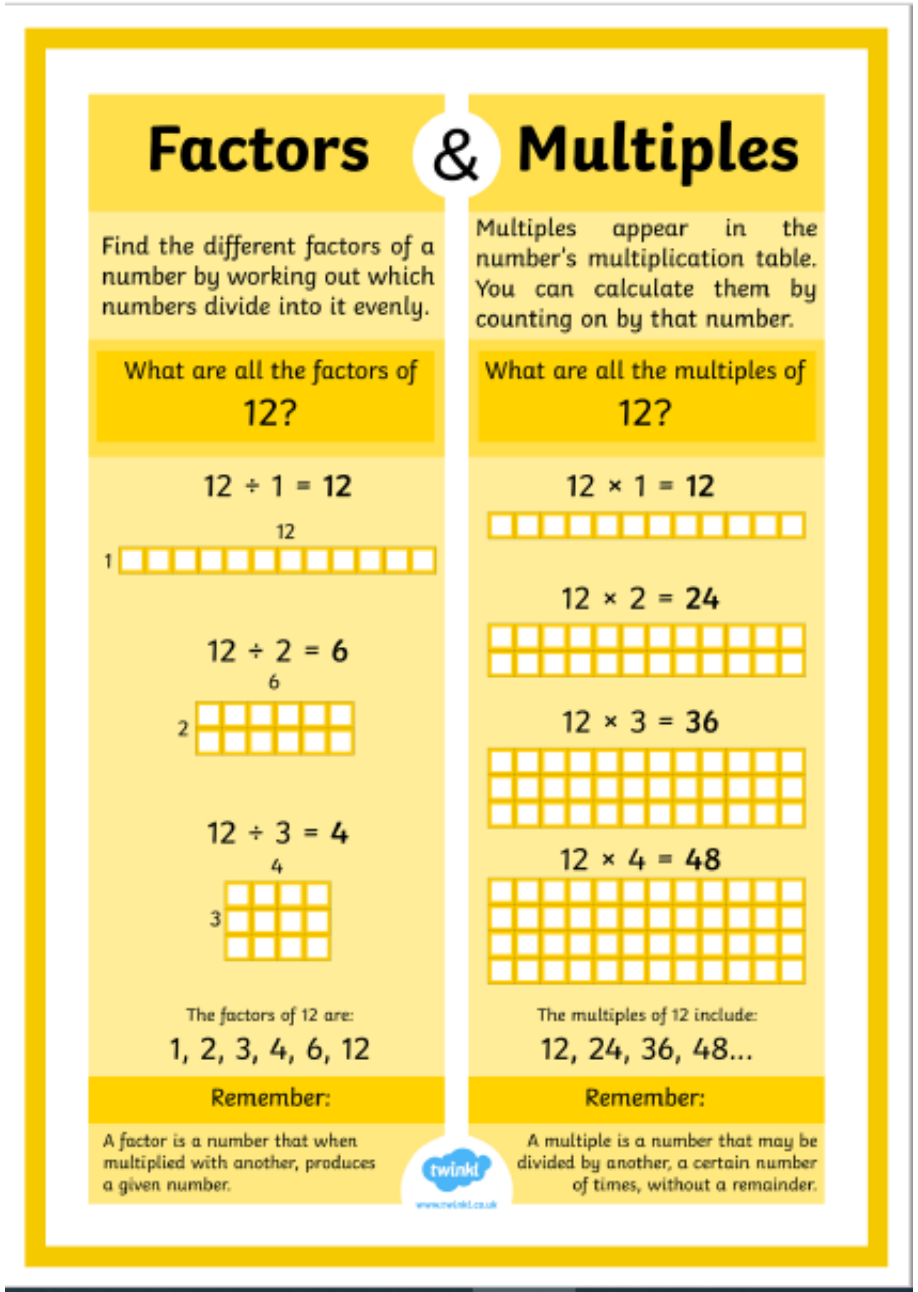
Monday

A factor is a number that when multiplied with another, produces a given number – look a the example of factors of 12 on the sheet.

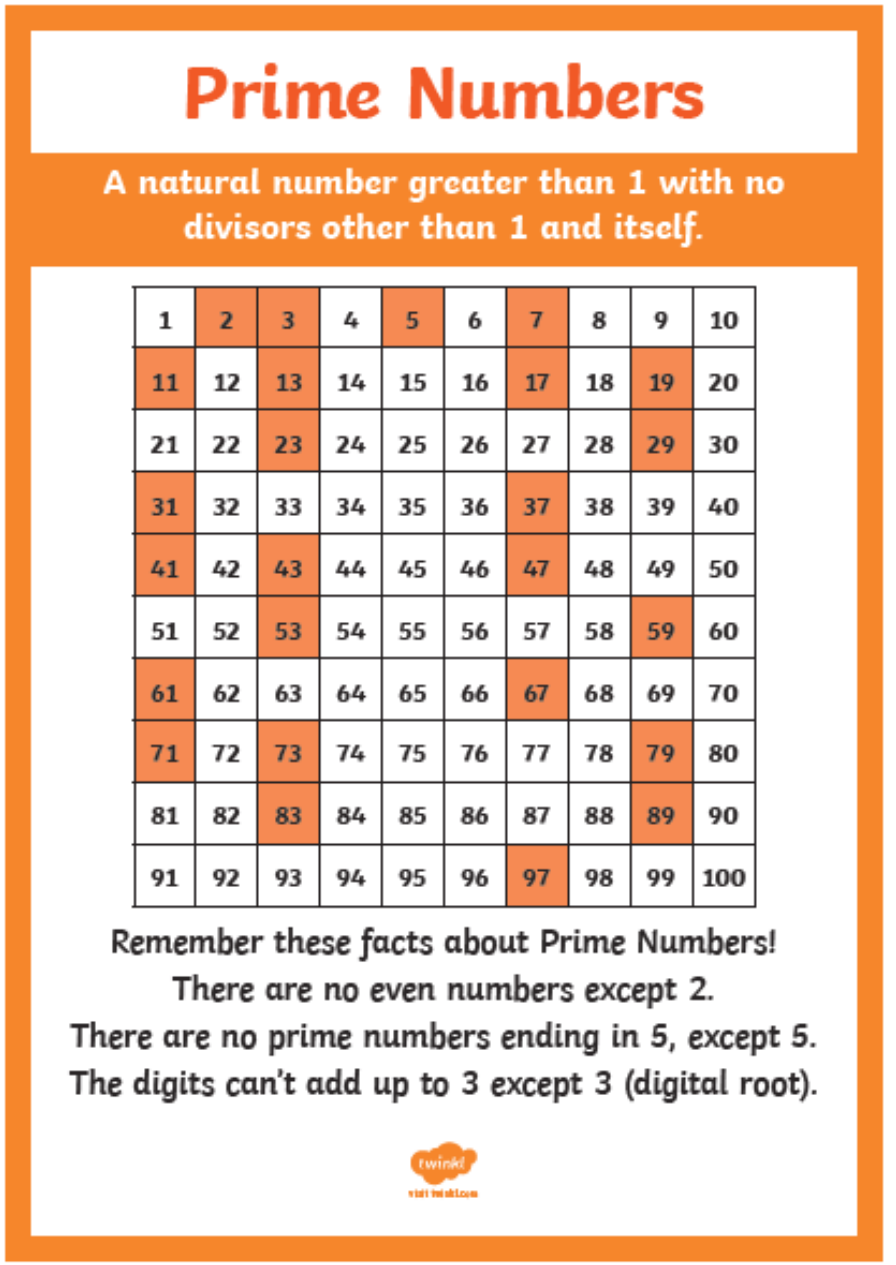


A multiple is a number that appears in a given numbers times tables.

Tuesday

A prime number is a number that can only be divided by 1 and itself (it goes into no other times tables, other than its own and the 1s)

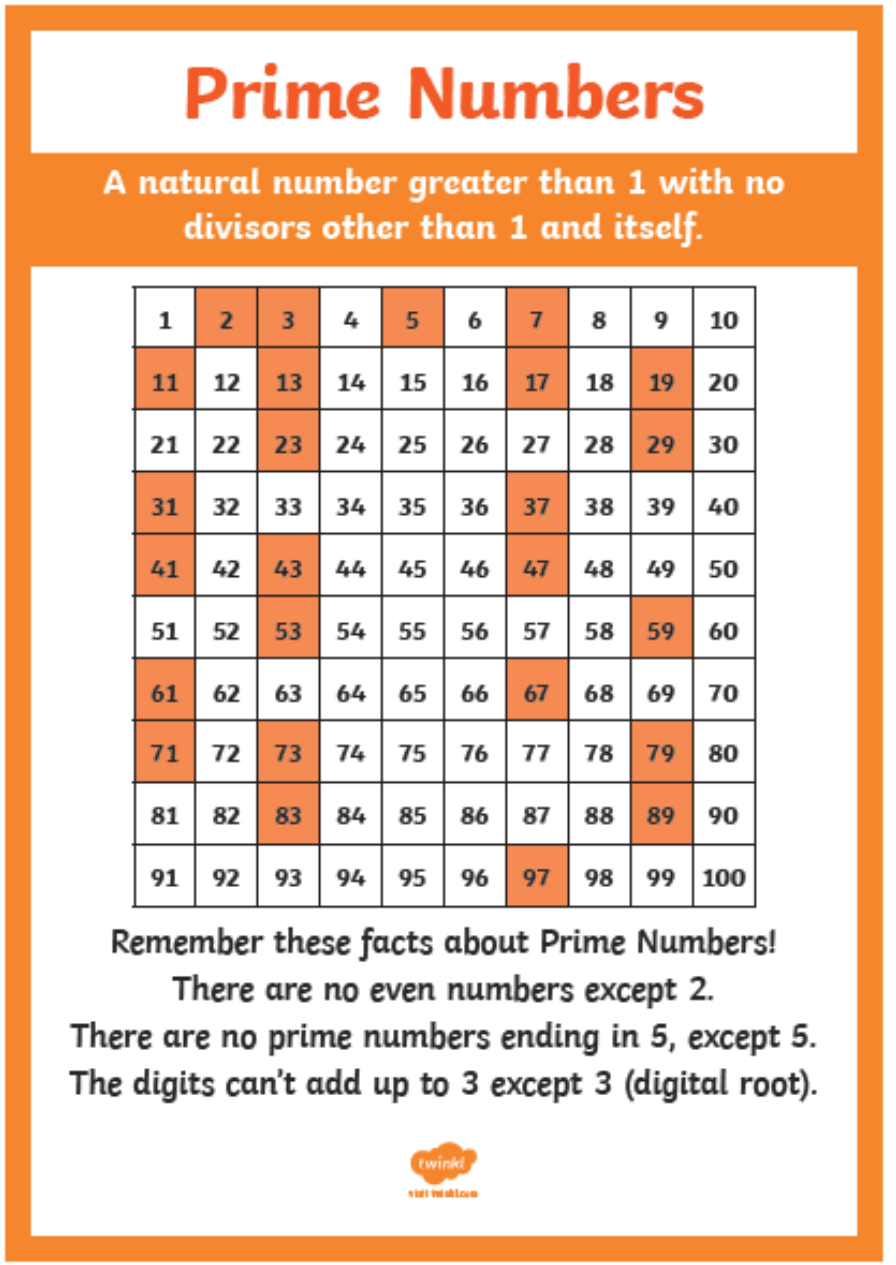
The number 1 is NOT a prime number



A **prime factor** is a factor (see Monday's slide) that is a prime number – for example the number 15 has 2 prime factors; 3 and 5 which multiply to make 15 and are prime numbers.

Wednesday

A **prime number (which can also be called non-composite number)** is a number that can only be divided by 1 and itself (it goes into no other times tables, other than its own and the 1s)



Prime Numbers

A natural number greater than 1 with no divisors other than 1 and itself.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Remember these facts about Prime Numbers!
There are no even numbers except 2.
There are no prime numbers ending in 5, except 5.
The digits can't add up to 3 except 3 (digital root).

A **Composite Number** is every other number that **<u>is not</u>** prime.

Thursday & Friday

Square Numbers

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

The product of a number multiplied by itself.

e.g. 10 × 10 = 100

which can be shown as:

$10^2 = 100$

10 squared = 100

10 × 10 = 100

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A square number is the product (answer) when a number is multiplied by itself – 2 x 2 = 4 so 4 is a square number.

A cube number is the product (answer) when a number is multiplied by itself 3 times – 2 x 2 x 2 = 8 so 8 is a cube number.

Cube Numbers

1^3	1 x 1 x 1 = 1
2^3	2 x 2 x2 = 8
3^3	3 x 3 x 3 = 27
4^3	4 x 4 x 4 = 64
5^3	5 x 5 x 5 = 125
6^3	6 x 6 x 6 = 216
7^3	7 x 7 x 7 = 343
8^3	8 x 8 x 8 = 512
9^3	9 x 9 x 9 = 729
10^3	10x10x10=1000
11^3	11x11x11=1331
12^3	12x12x12=1728
13^3	13x13x13=2197
14^3	14x14x14=2744
15^3	15x15x15=3375

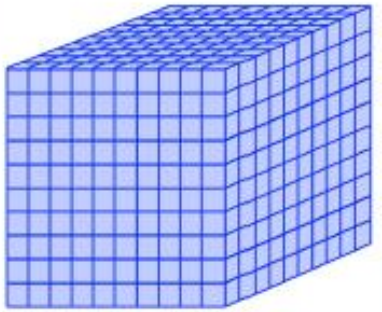
Formed by multiplying a digit by itself 3 times.

e.g. 10 x 10 x 10 = 1000 which can be shown as:

$10^3 = 1000$

10 cubed = 1000

10x10x10 cube



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