

Mathematics Knowledge Organiser

Place Value

Say, write, say: thousands, hundreds, tens and ones

Th	Н	Т	0
•	•	•	•••
•		•	••

"Two thousand, one hundred and twenty three" 2,221—two thousands, one hundred, 2 tens and three ones

Place value: the value of a digit based on its place in the number. Each place has a value 10x the column to the its right.

Positive: a number below 0

Negative: a number above 0

Digit: number symbols 0-10

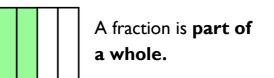
Roman Numerals up to 100

1	=	Ι	10	=	Х
2	=	II	20	=	XX
3	=	III	30	=	XXX
4	=	IV	40	=	XL
5	=	V	50	=	L
6	=	VI	60	=	LX
7	=	VII	70	=	LXX
8	=	VIII	80	=	LXXX
9	=	IX	90	=	XC
			100	=	С



4

5

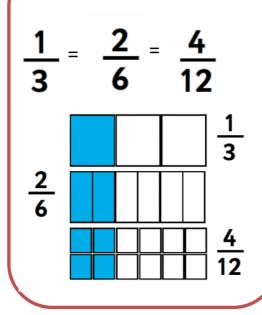


numerator = number of parts

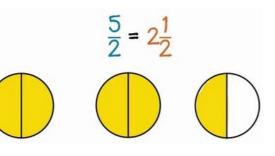
→ fractions bar = divided by / out

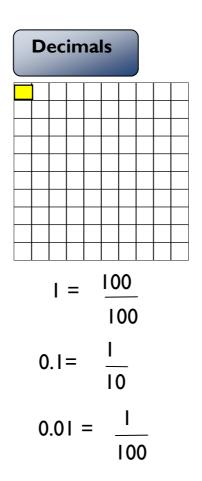
denominator = number of parts in

Equivalent fractions

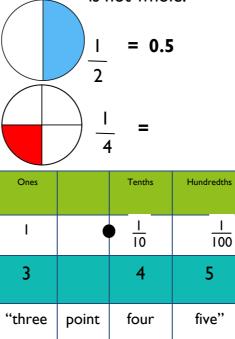


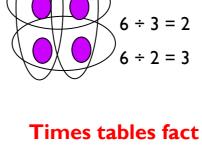
A fraction can be split into wholes and parts.





A decimal point comes after the ones column when the number includes a fraction and is not whole.





Multiplication facts

 $3 \times 2 = 6$

 $2 \times 3 = 6$

to 12 x 12



 2×12 3×8 24 1×24 4 x 6

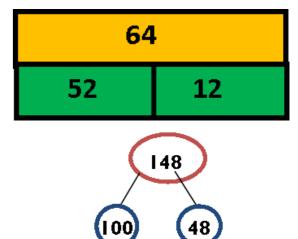
Multiples

1	2	3	4	5	6	7	8	9	L
11	12	13	14	15	16	17	18	19	2
21	22	23	24	25	26	27	28	29	
31	32	33	34	35	36	37	38	39	4
41	42	43	44	45	46	47	48	49	-
51	52	53	54	55	56	57	58	59	6
61	62	63	64	65	66	67	68	69	7
71	72	73	74	75	76	77	78	79	8
81	82	83	84	85	86	87	88	89	9
91	92	93	94	95	96	97	98	99	1
101	102	103	104	105	106	107	108	109	1
111	112	113	114	115	116	117	118	119	1



Calculations

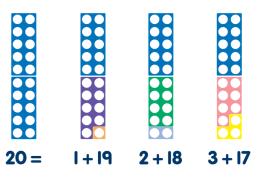
Part + Part = Whole



Fast recall of number bonds to 20

? + 5 = 20

20 - 7 = ?



Greater than and less than

= means the same as

