Year 3: Maths Knowledge Mat



Time - Sticky Knowledge

24 hour clocks



The time is 10.10 in the morning or 22.10 in the evening in 24 hour time.

a.m. is from midnight until mid-day (noon)

1 to 12 in 24 hour clock time

Roman numerals



This clock is showing X to II or 10 to 2.

On some clocks the 4 is IIII and sometimes it is IV

p.m. is from mid-day (**noon**) until midnight

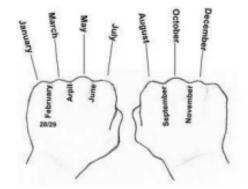
13 to 24 in 24 hour clock time

There are 365 days in a year.

A leap year has 366 days. This is February 29th and happens every 4 years.

January February	31 days 28 days
March	31 days
April	30 days
May	31 days
June	30 days
July	31 days
August	31 days
September	30 days
October	31 days
November	30 days
December	31 days

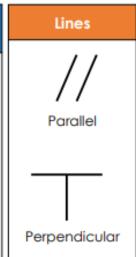
'Knuckle Mnemonic'

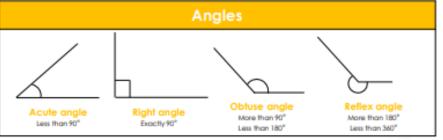


Perimeter Perimeter is the distance around a 2D shape 32m 20m 32m

Non symmetrical (irregular) polygons

Polygon/Shape	Regular	Irregular
Triangle		
Quadrilateral		
Pentagon		
Hexagon		
Heptagon		
Octagon		







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Counting from 0		
Counting in multiples of 4 0, 4, 8, 12, 16, 20, 24, 28, 32		

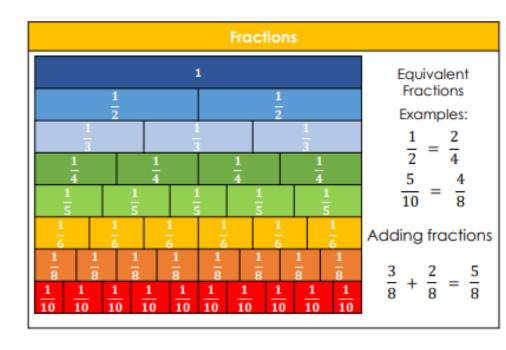
Counting in **multiples of 8** 0, 8, 16, 24, 32, 40, 48...

Counting in **multiples of 50** 0, 50, 10, 150, 20, 250, 300...

Counting in **multiples of 100** 0, 100, 200, 300, 400, 500...

Vocabulary			
100	hundred		
1000	thousand		
+ - x ÷	inverse operations		
1/2 ←	Numerator		
1/ ₂ ←	Denominator		

Place value	Thousands	Hundreds	Tens	Ones		Tenths
1238	1	2	3	8	•	0
58.9	0	0	5	8	•	9
3050.4	3	0	5	0	•	4



MUI	Multiplication lables				
x	3	4	8		
1	3	4	8		
2	6	8	16		
3	9	12	24		
4	12	16	32		
5	15	20	40		
6	18	24	48		
7	21	28	56		
8	24	32	64		
9	27	36	72		
10	30	40	80		
11	33	44	88		
12	36	48	96		

Multiplication Tables

Formal methods of addition, subtraction and short multiplication and division						
7 6 8 + 6 5 3 1 4 2 1	8 6 2 - 5 1 4 - 3 4 8	934 - 456 becomes 8 12 1 9 3 4 - 4 5 6 4 7 8	26 x 8 becomes X 20	78 ÷ 6 becomes 18 6 78 60 (10x) 18 18 (3x)		