Year 3: Maths Knowledge Mat



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						
<u>1</u> ←	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

Fractions 1 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{4$

Equivalent Fractions							
Examples:							
$\frac{\frac{1}{2}}{\frac{5}{10}} = \frac{\frac{2}{4}}{\frac{4}{8}}$							
Adding fractions							
$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$							

ONS		
$\frac{5}{8}$		
_		
	l	

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

768 +	653	bec	omes	862 -	514	bec	omes	934 -	456	becc	mes	26 x	8 b	eco	mes	78 ÷	6 b	ecom	es
										12	1						1	3	
	7	6	8		8	6	2		9	,3	4			2	6			1	
+	6	5	3	-	5	1	4	-	4	5	6	_	X		8	6	7	8	
1	4	2	1		3	4	8		4	7	8	_	2	0	8	'			
	1	1												4					



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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

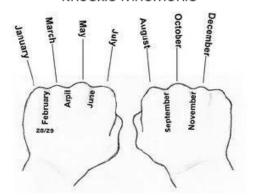
13 to 24 in 24 hour clock time

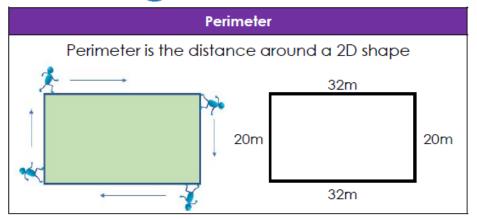
There are 365 days in a year.

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

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

'Knuckle Mnemonic'





Non symmetrical (irregular) polygons

Polygon/Shape	Regular	Irregular
Triangle		
Quadrilateral		
Pentagon		
Hexagon		
Heptagon		
Octagon		

