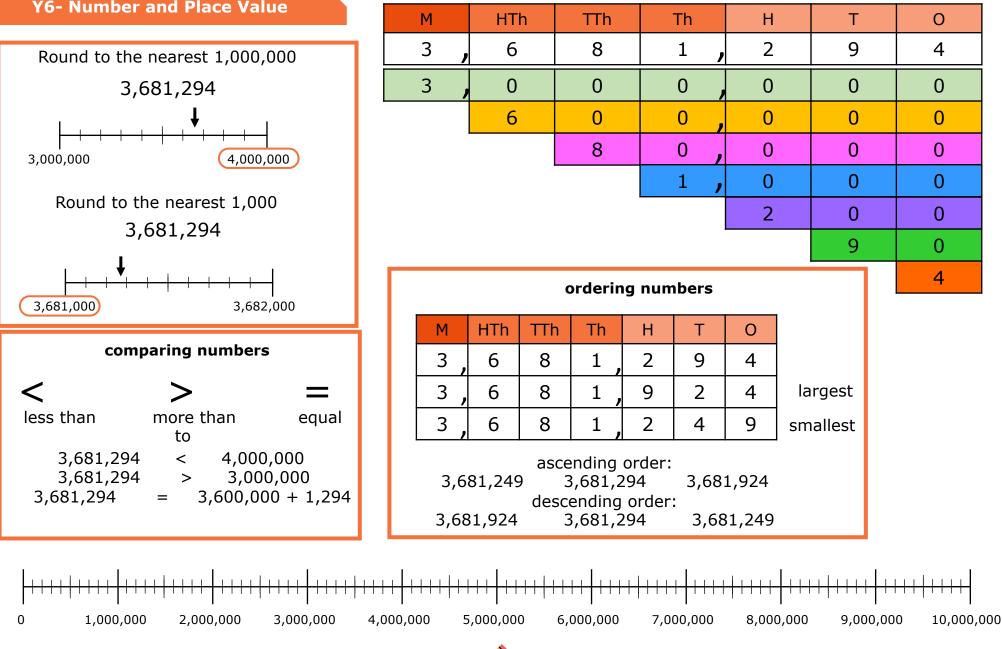
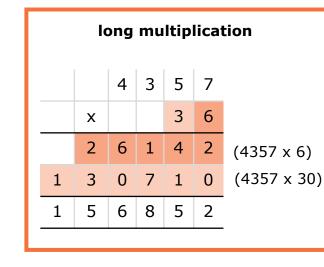
#### **Y6- Number and Place Value**





## Y6- Addition, Subtraction, Multiplication and Division

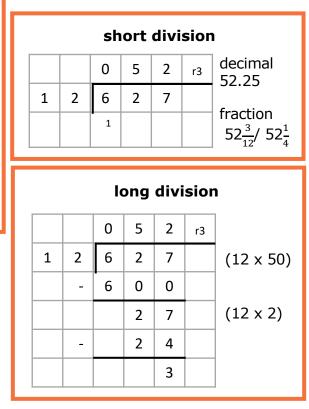


using rounding to estimate

3.8 is roughly equal to 4.

3.8 x 6

 $4 \times 6 = 2\overline{4}$ 



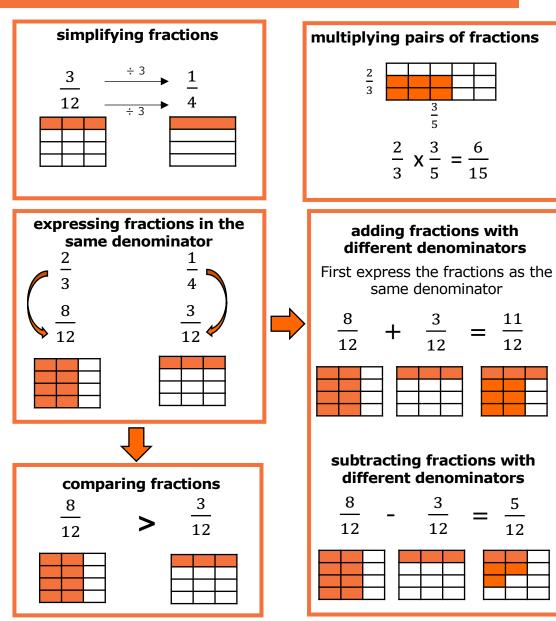
		5 – 3 + (6 x 2) x	2 <sup>2</sup>
в	Brackets	5 – 3 + <b>12</b> x 2 <sup>2</sup>	1) Solve any brackets (6 x 2 = 12)
0	Order (square/ cubes/ roots)	5 – 3 + 12 x <b>4</b>	2) Solve any square/ cube/ roots (2 <sup>2</sup> = 4)
DM	Division and multiplication Addition and subtraction	5 – 3 + <b>48</b>	<ol> <li>Solve any division or multiplication in order from left to right (12 x 4 = 48)</li> </ol>
AS		50	4) Solve any addition or subtraction in order from left to right $(5 - 3 + 48 = 50)$

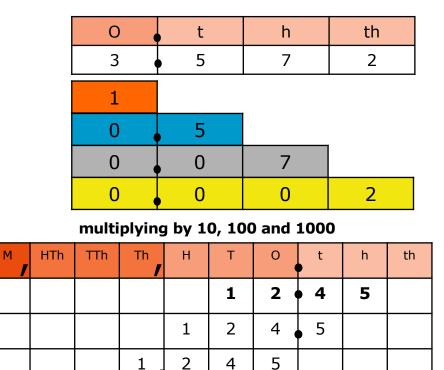


	$\frac{1}{2}$	6.			mon <u>3(</u> 1 x 2 x 3 x	<b>fact</b> <u>)</u> 30 15				
24	ommo I. The ultiple ultiple	low	est c	omn	non r	nulti	ple (	LCM	<b>)</b> is	12
	tha itse inte	rime n one lf. It ger v y eve	e tha can' withc	t onl t be out le	y has divid avin	s two ed by g a r	) fact y and	ors- other	one posi	and tive
	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
	41 51	42 52 62	43 53	44 54	45 55	46 56	47 57	48 58	49 59	50 60

# **Y6-** Fractions (including Decimal and Percentages)





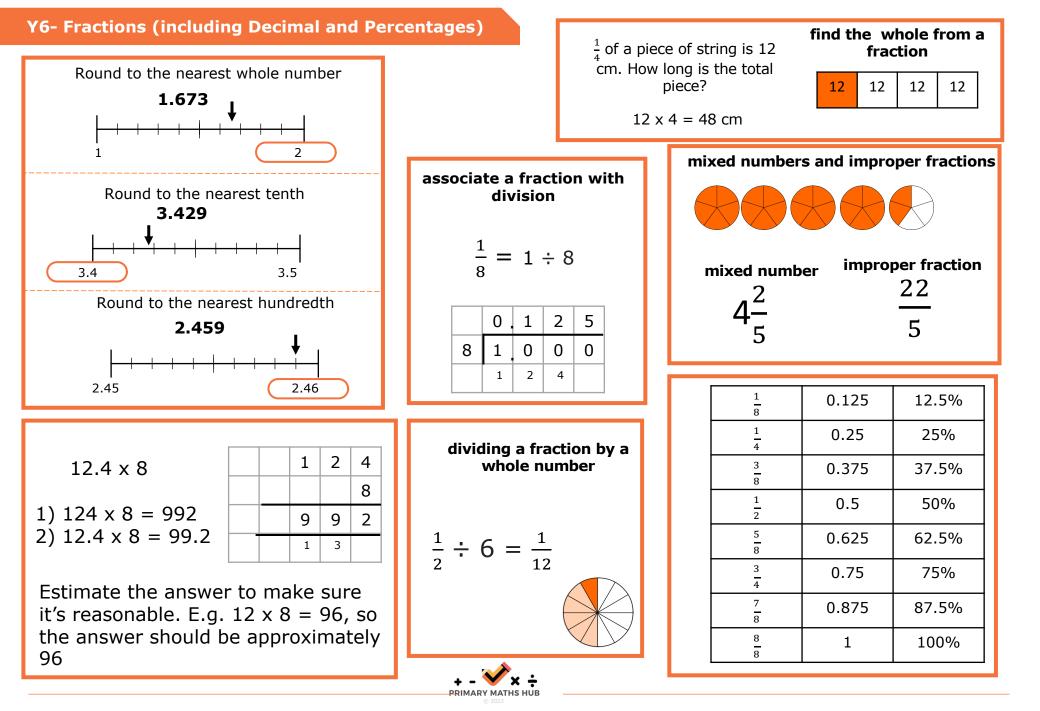
#### dividing by 10, 100 and 1000

М	HTh	TTh	Th	Н	Т	0	t	h	th
				4	2	1			
					4	2	1		
						4	2	1	
						0	4	2	1



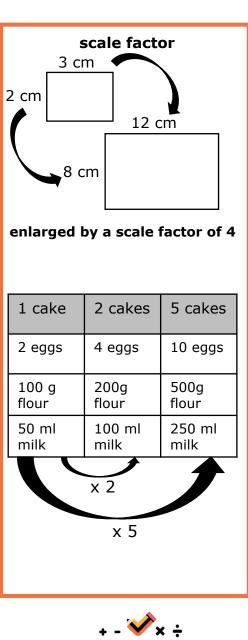
 $\frac{1}{12}$ 

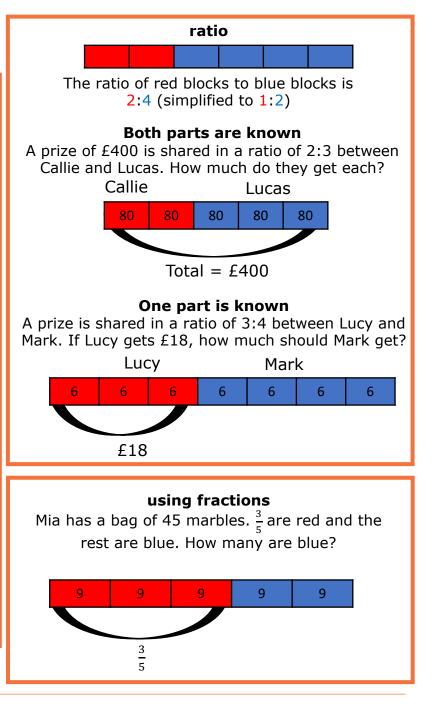
=



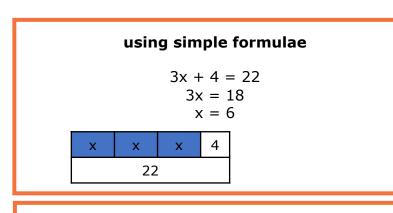
#### **Y6- Ratio and Proportion**

calcula	ating percentages of a number				
'per cent' means 'out of 100'. 50% means $\frac{50}{100}$ (50 out of 100)					
k	Yey percentages to remember				
50%	divide the number by 2				
25%	divide the number by 4				
75%	divide the number by 4, then multiply the answer by 3				
10%	divide the number by 10				
1%	divide the number by 100				
	Multiples of 10%				
30%	Divide the number by 10, then multiply the answer by 3				
40%	Divide the number by 10, then multiply the answer by 4				
70%Divide the number by 10, then multiply the answer by 7					
	Other percentages				
32%	Divide the number by 100, then multiply the answer by 32				
78%	Divide the number by 100, then multiply the answer by 78				





## Y6- Algebra



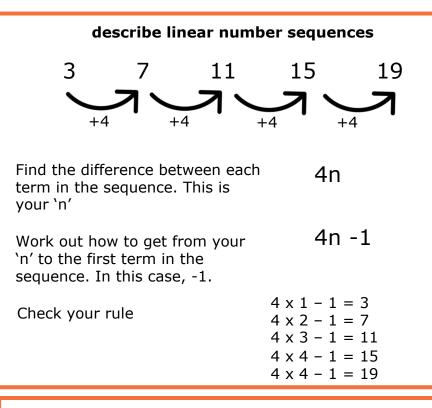
# find pairs of numbers that satisfy an equation

2a + b = 12  $2 \times 1 + 10 = 12$   $2 \times 2 + 8 = 12$   $2 \times 3 + 6 = 12$   $2 \times 4 + 4 = 12$  $2 \times 5 + 2 = 12$ 

# using algebra to show unknown measurements

A piece of string was 130 cm long but a section was cut off. The string is now 103 cm long. How much was cut off?

> 130 - x = 103130 - 27 = 103



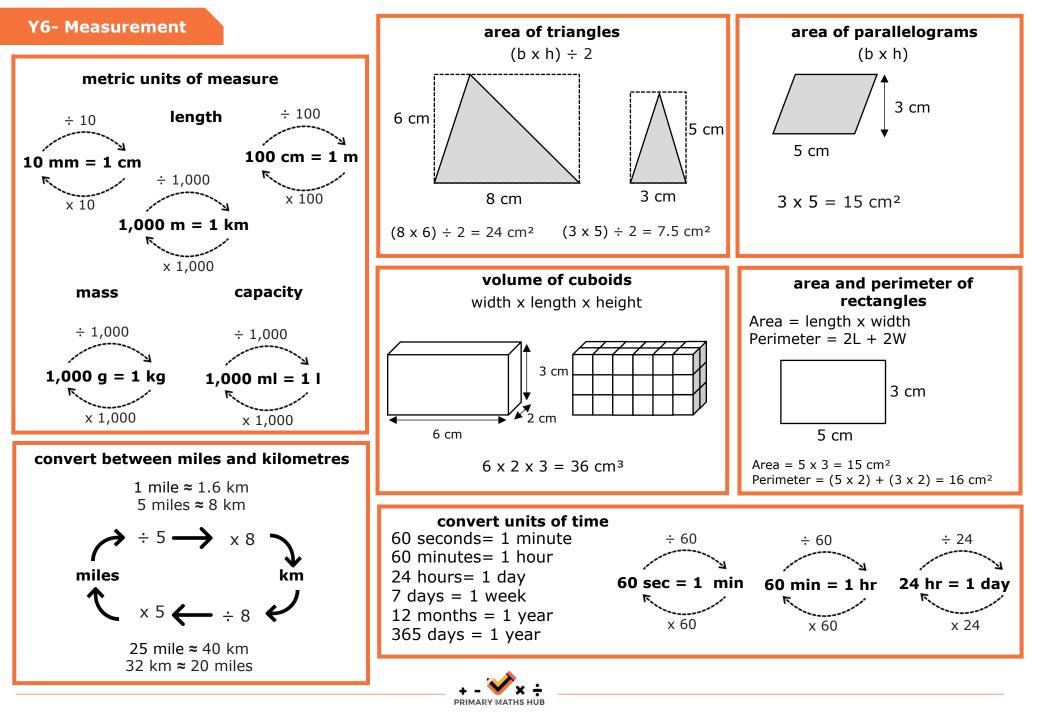
#### generate linear number sequences

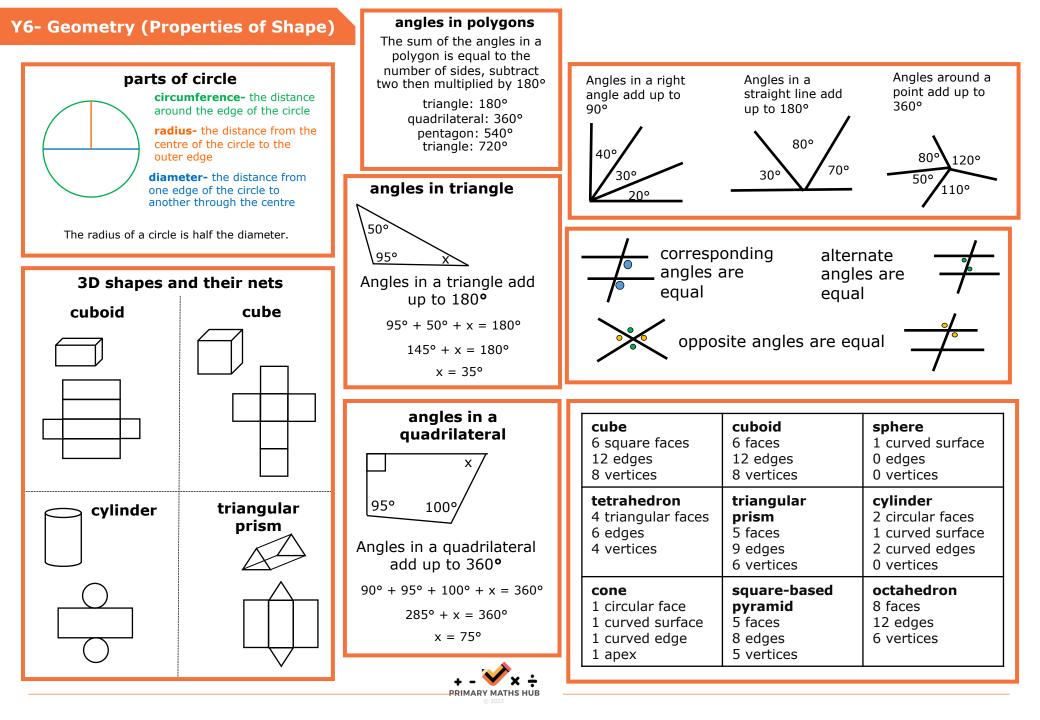
Rule: 3n + 2

- 1) Multiply the 'n' number by each term in the sequence
- Add or subtract the number that comes after the 'n'

**1**<sup>st</sup> term: 3 x **1** + 2 = 5 **2**<sup>nd</sup> term: 3 x **2** + 2 = 7 **20**<sup>th</sup> term: 3 x **20** + 2 = 62 **100**<sup>th</sup> term: 3 x **100** + 2 = 302







# Y6- Geometry (Properties of Shape)

