Year 4 Knowledge Mat

Counting from 0

Counting in **multiples of 6**
0, 6, 12, 18, 24, 30, 36, 42 …

Counting in **multiples of 7**
0, 7, 14, 21, 38, 35, 42, 49…

Counting in **multiples of 9**
0, 9, 18, 27, 36, 45, 54, 63 …

Counting in **multiples of 25**
0, 25, 50, 75, 100, 125, 150…

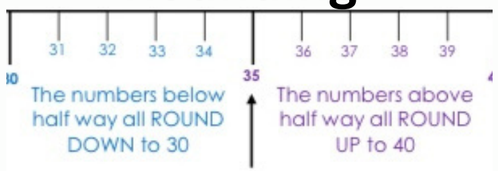
Counting in **multiples of 1000**
0, 1000, 2000, 3000, 4000…

Counting up and down in **hundredths**

$\frac{1}{100}, \frac{2}{100}, \frac{3}{100}, \frac{4}{100} \ldots\ldots \frac{99}{100}, 1$

A **thousand more** than 4753 is 5753.
A **thousand less** than 4753 is 3753.

Rounding



The number in the middle is half way and ROUNDS UP to 40

Rounding to 100 and 1000 follows the same rule.
350 rounds up to 400
3500 rounds up to 4000

Rounding decimal places also follows the same rule.
3.4 rounds to 3.0 but 3.5 rounds to 4.0
3.04 rounds to 3.00 but 3.05 rounds to 3.10

Roman Numerals

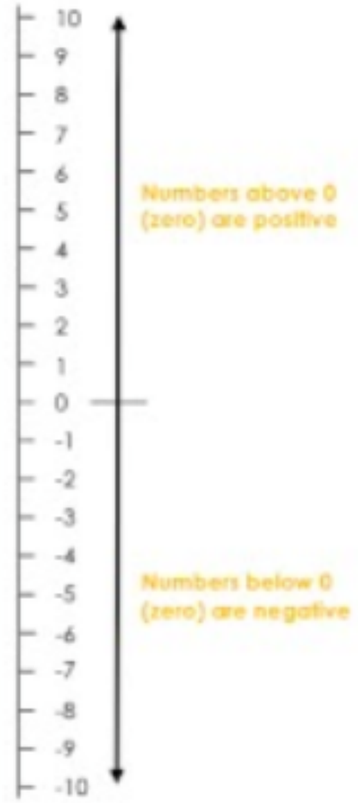
1 = I	10 = X
2 = II	20 = XX
3 = III	30 = XXX
4 = IV	40 = XL
5 = V	50 = L
6 = VI	60 = LX
7 = VII	70 = LXX
8 = VIII	80 = LXXX
9 = IX	90 = XC
	100 = C

Factors

A factor pair is a pair of numbers that, when multiplied will result in a given product.

Factor pairs for 24:
1, 24
2, 12
3, 8
4, 6

Negative Numbers



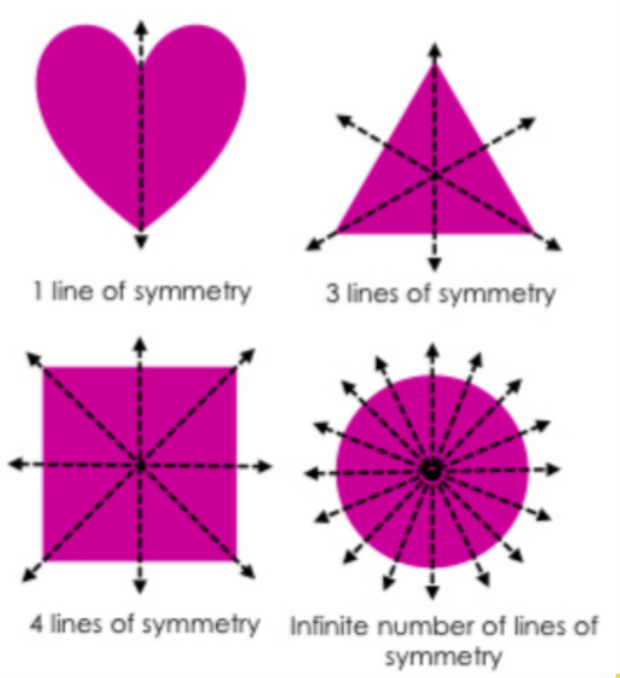
Simplifying Fractions

$\frac{40}{80} = \frac{20}{40} = \frac{10}{20} = \frac{5}{10} = \frac{1}{2}$ So $\frac{40}{80} = 0.5$

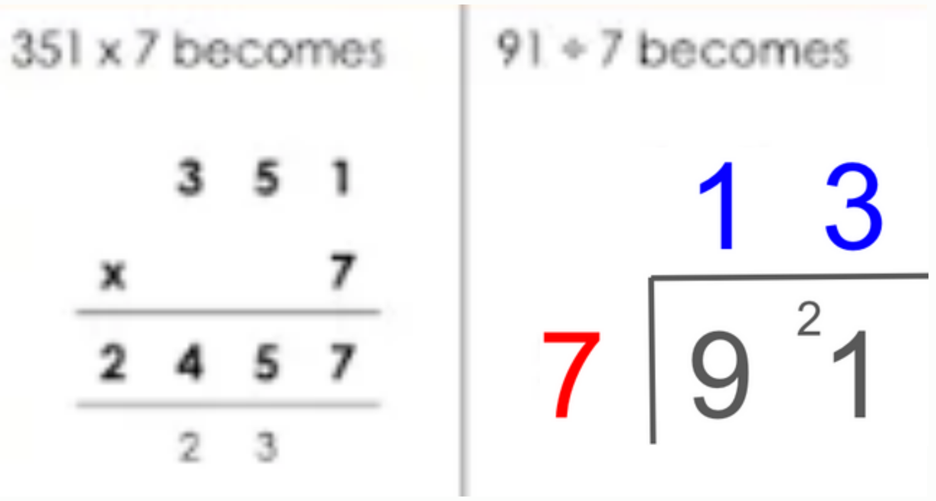
Times Tables

x	6	7	9	11	12
2	12	14	18	22	24
3	18	21	27	33	36
4	24	28	36	44	48
5	30	35	45	55	60
6	36	42	54	66	72
7	42	49	63	77	84
8	48	56	72	88	96
9	54	63	81	99	108
10	60	70	90	110	120
11	66	77	99	121	132

Symmetry

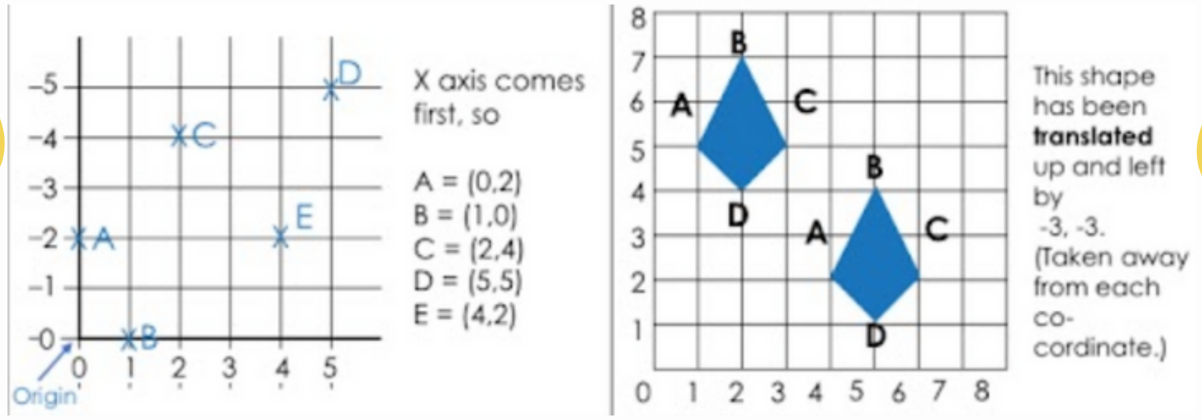


Formal Method of short Multiplication & Division

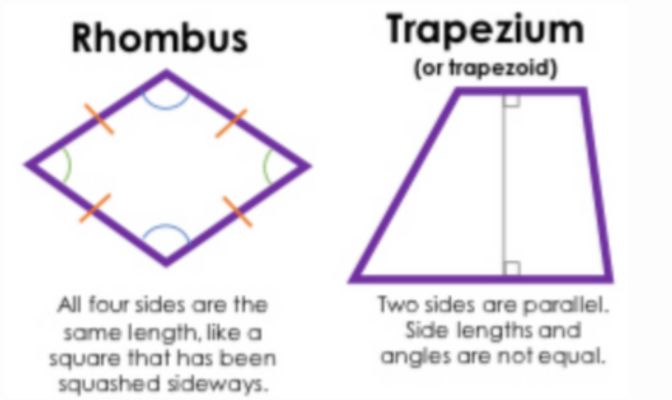


Place Value	Tens	Ones	.	tenths	hundredths
67	6	7	.	0	0
$6.7 = 6\frac{7}{10}$		6	.	7	0
$0.67 = \frac{67}{100}$		0	.	6	7

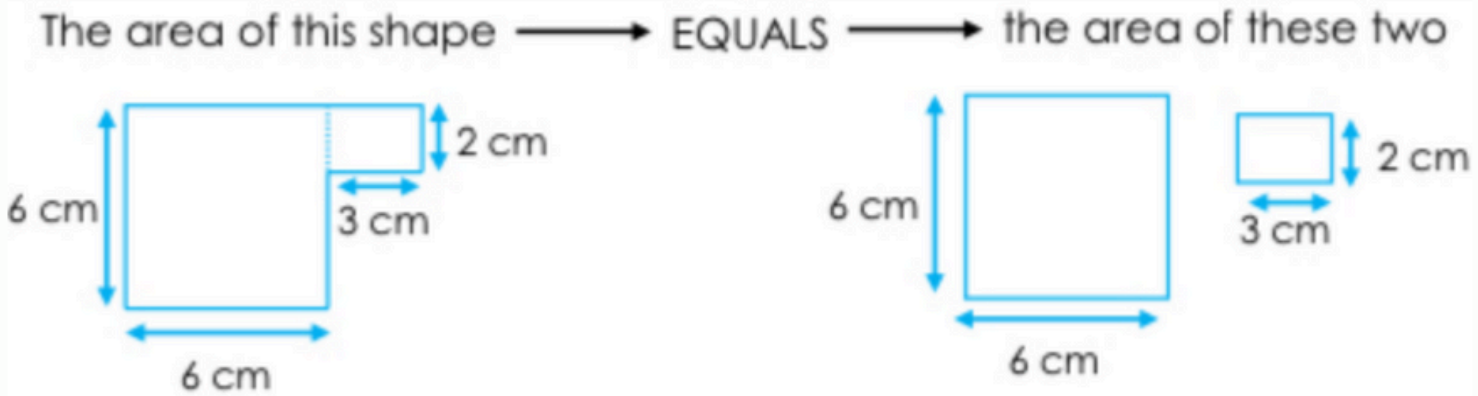
Coordinates



2D Shapes



Area



The area of this shape = (6 X 6) + (2 X 3)

= 36 + 6

= 42 cm²

Time

Digital and analogue clocks

Both clocks show it is 10 o'clock. But only the digital clock shows that it is pm (in the evening) because it is using 24 hour time.

Triangles