Essential Maths Facts for Year 4

At our school, by the end of Year 4 you need to know:

Number

- ✓ Halves of odd numbers from 10 to 20:
  - half of 11 = 5½
  - half of 13 = 6½
  - half of 15 = 7½
  - half of 17 = 8½
  - half of 19 = 9½
- ✓ A square number is created by multiplying two numbers the same together.
- ✓ As an example of notation, $4^2 = 4 \times 4$.
- ✓ The first twelve square numbers are: 1, 4, 9, 16, 25, 36, 49, 64, 81, 100, 121, 144
- ✓ A **multiple of a number** is the result of multiplying that number with a whole number, e.g. 3 x 2 = 6 so 6 is a multiple of 3 and of 2
- ✓ A **factor of a number** is any whole number that divides into it exactly, e.g. the factors of 12 are 1, 2, 3, 4, 6 and 12.
- ✓ Making 100: 5 x 20 = 100 4 x 25 = 100

Roman Numerals

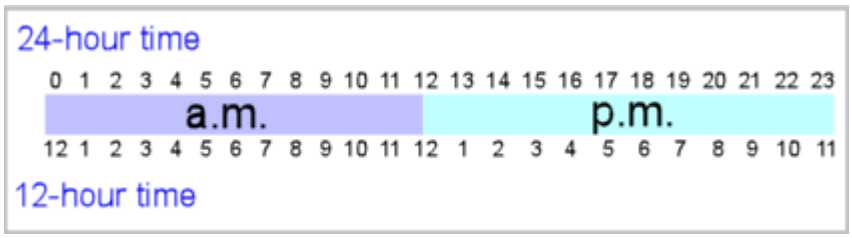
XL = 40	C = 100
L = 50	CX = 110
LX = 60	L = 500
XC = 90	M = 1000

Fractions

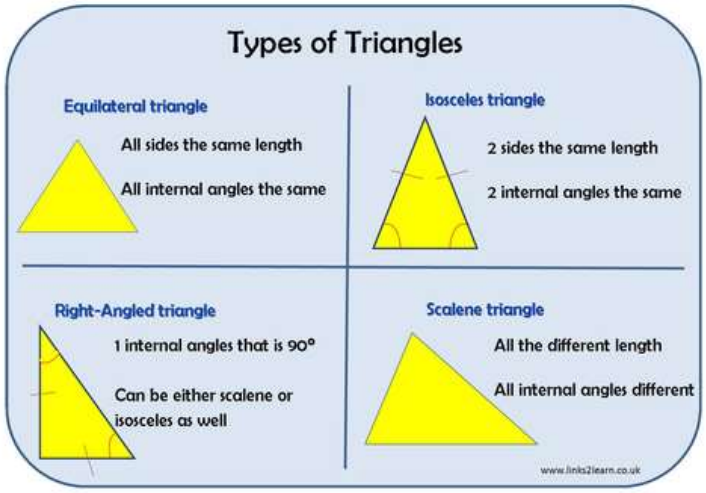
- ✓ Fraction, decimal and percentage equivalence:
  - 1 whole = 100%
  - ½ = 0.5 = 50%
  - ¼ = 0.25 = 25%
  - ¾ = 0.75 = 75%
  - $\frac{1}{10}$ = 0.1 = 10%
  - $\frac{1}{100}$ = 0.01 = 1%

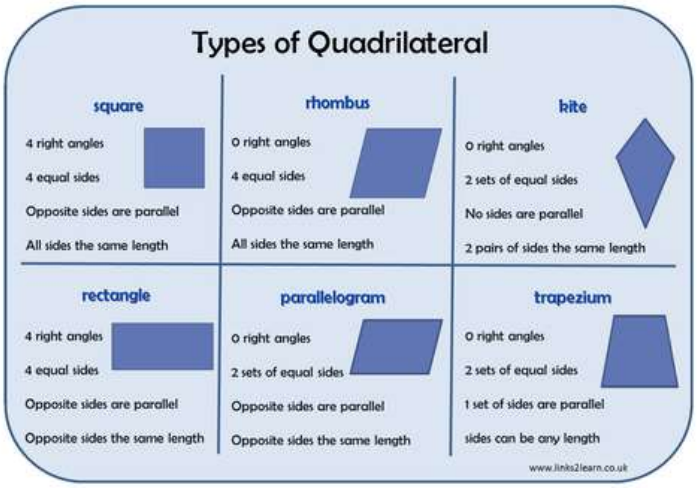
Time

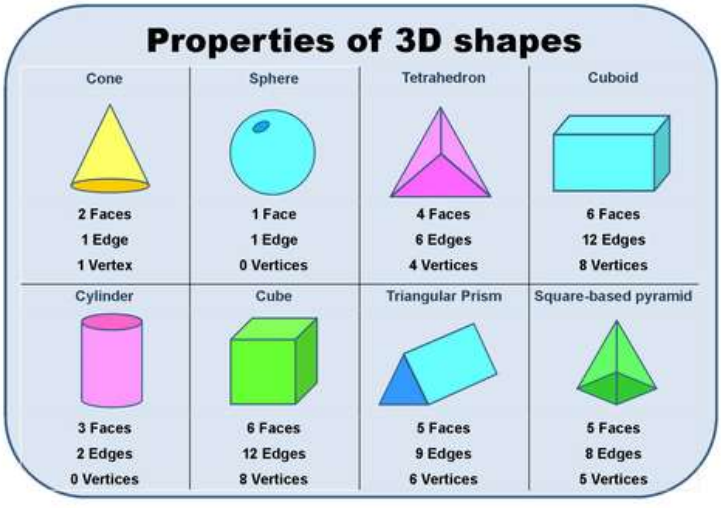
- ✓ 12 noon is 12pm.
- ✓ 12 midnight is 12am.
- ✓ There are sixty seconds in a minute.
- ✓ 120 minutes = 2 hours.
- ✓ 180 minutes = 3 hours.
- ✓ There are 10 years in a decade.
- ✓ Conversions between 12- and 24-hour time:



Shape







Acute angle An angle which measures more than 0°, but less than 90°.	Right angle An angle which measures exactly 90°.
Obtuse angle An angle which measures more than 90°, but less than 180°.	Straight angle An angle which measures exactly 180°.