Formulae and Equations

Formulae
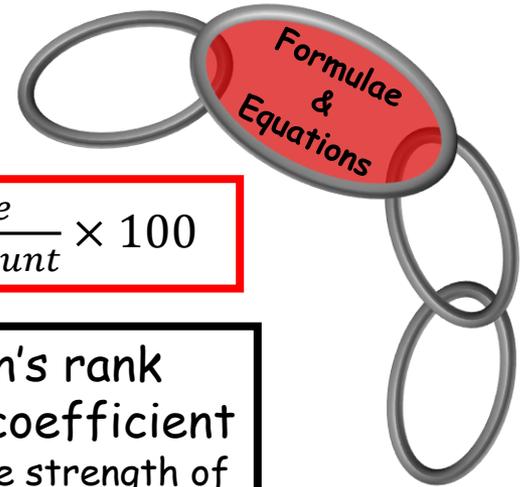
$$Speed = \frac{Distance}{Time}$$

$$Percentage\ change = \frac{Difference}{Original\ amount} \times 100$$

$$Population\ density = \frac{Total\ population}{Total\ area\ of\ land}$$

Often measured as people per square mile.

Spearman's rank correlation coefficient
(Determines the strength of the relationship between two sets of data.)

$$r_s = 1 - \frac{6\sum D^2}{n(n^2 - 1)}$$

$\sum$ This symbol is called sigma and means the sum of.

Substitution

Replace letters with the corresponding numbers.

Example Minimum wage (W) is £8 per hour and you work for 13 hours (H). How much do you get paid?

Pay = Minimum wage × Hours

$$P = W \times H$$

Pay = £8 × 13 = £104