

N5

National Qualifications

2026

Mathematics

Paper 1 (non-calculator)

Friday, 8 May

Formulae List

[Braille page 2] FORMULAE LIST

The roots of

$$ax^2 + bx + c = 0 \text{ are } x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Sine rule:

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine rule:

$$a^2 = b^2 + c^2 - 2bc$$

$$\cos A$$

or

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

Area of a triangle:

$$A = \frac{1}{2}ab \sin C$$

Volume of a sphere:

$$V = \frac{4}{3}\pi r^3$$

Volume of a cone:

$$V = \frac{1}{3}\pi r^2 h$$

Volume of a pyramid:

$$V = \frac{1}{3}Ah$$

Standard deviation:

$$s = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$$

$$\text{or } s = \sqrt{\frac{\sum x^2 - \frac{(\sum x)^2}{n}}{n - 1}}, \text{ where } n \text{ is the sample size.}$$

[End of Formulae List]