

N5

National Qualifications

2026

Applications of Mathematics

Paper 2

Friday, 15 May

Formulae List

[Braille page 2] FORMULAE LIST

Circumference of a circle:

$$C = \pi d$$

Area of a circle:

$$A = \pi r^2$$

Theorem of Pythagoras: Refer to diagram sheet for representation of triangle conforming to

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

Volume of a cylinder:

$$V = \pi r^2 h$$

Volume of a prism:

$$V = Ah$$

Volume of a cone:

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

Volume of a sphere:

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

Standard deviation:

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

Gradient: Refer to diagram sheet for representation of a gradient.

$$\text{gradient} = \frac{\text{vertical height}}{\text{horizontal distance}}$$