

Syllabus reference 1MA1/3F
Pearson Edexcel GCSE (9–1)
Mathematics

Mathematics
PAPER 3 (Calculator)
Foundation Tier

November 2022 Assessment Window

Foundation Tier

Formulae Sheet

**DO NOT RETURN THIS
FORMULAE SHEET WITH THE
QUESTION PAPER.**

Q68724A

Foundation Tier Formulae Sheet

Perimeter, area and volume

Where **a** and **b** are the lengths of the parallel sides and **h** is their perpendicular separation:

$$\text{Area of a trapezium} = \frac{1}{2}(a + b)h$$

$$\text{Volume of a prism} = \text{area of cross section} \times \text{length}$$

Where **r** is the radius and **d** is the diameter:

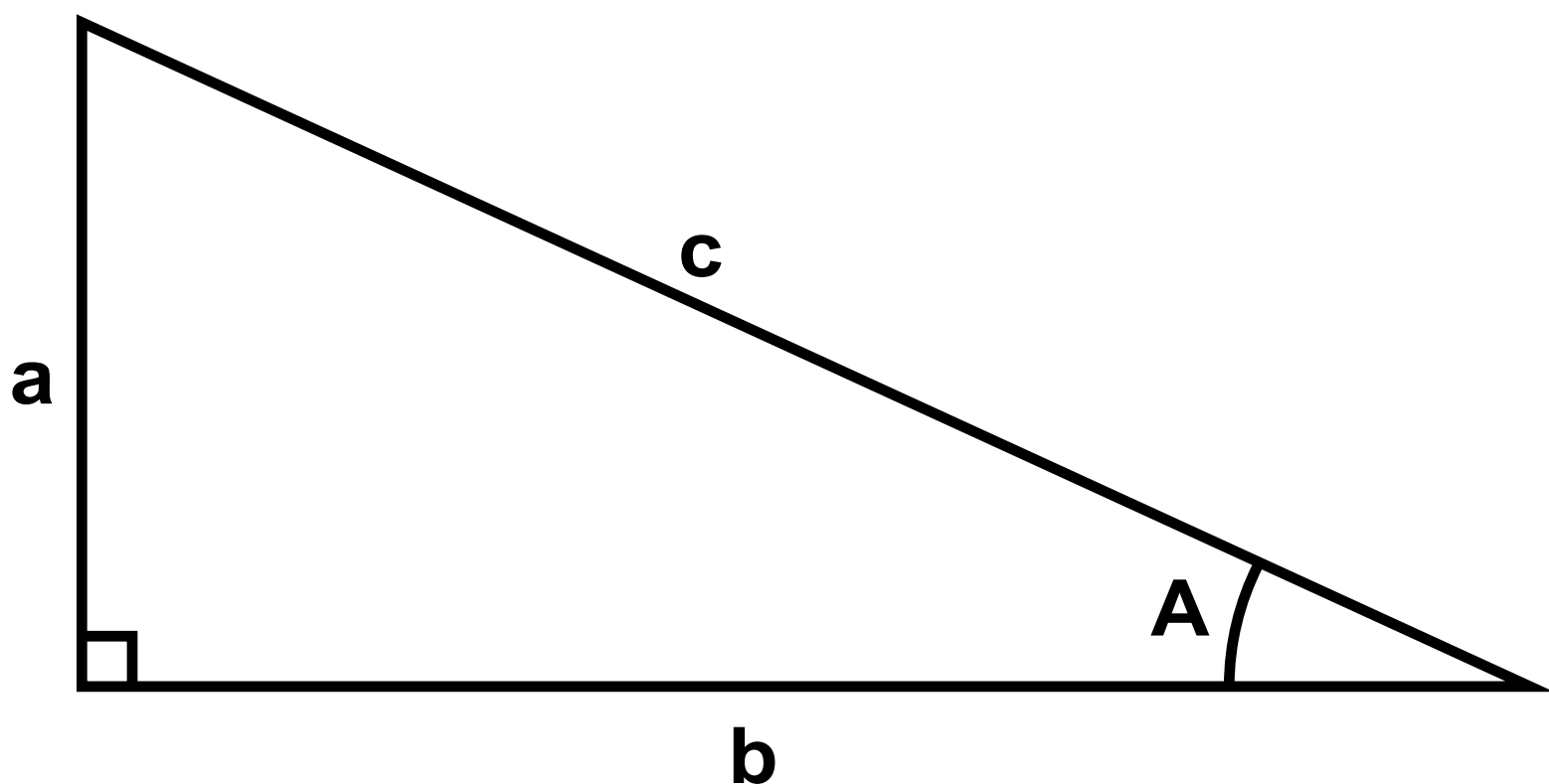
$$\text{Circumference of a circle} = 2\pi r = \pi d$$

$$\text{Area of a circle} = \pi r^2$$

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Pythagoras' Theorem and Trigonometry



In any right-angled triangle where **a**, **b** and **c** are the length of the sides and **c** is the hypotenuse:

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

In any right-angled triangle **ABC** where **a**, **b** and **c** are the length of the sides and **c** is the hypotenuse:

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

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Compound Interest

Where **P** is the principal amount, **r** is the interest rate over a given period and **n** is number of times that the interest is compounded:

$$\text{Total accrued} = P \left(1 + \frac{r}{100} \right)^n$$

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Probability

Where $P(A)$ is the probability of outcome **A** and $P(B)$ is the probability of outcome **B**:

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

END OF EXAM AID
