

N5 Geometry & Measure

Q1

When do you use **squared units** e.g. centimetres squared (cm<sup>2</sup>) or metres squared (m<sup>2</sup>)?

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A5

Double it

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Q2

When do you use **cubed units** e.g. metres cubed (m<sup>3</sup>) or centimetres cubed (cm<sup>3</sup>)?

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A6

When you are working out a distance or perimeter

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Q3

How do you find the area of a **triangle**?

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A7

$$A = \pi r^2$$

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Q4

How do you find the volume of a **cuboid**?

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A8

$$C = \pi d$$

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Q5

If you are told the radius, how do you find the **diameter** of a circle?

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A1

When you are working out an area (or when the formula begins “ $A =$ ”

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Q6

When do you use normal units (not squared or cubed)?

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A2

When you are working out an volume (or when the formula begins “ $V =$ ”

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Q7

What is the formula for the area of a circle?

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A3

“Half Base times Height” (or  $A = \frac{BH}{2}$ )

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Q8

What is the formula for the **circumference** of a circle?

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A4

“Length times Breadth times Height” (or  $V = LBH$ )

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Q9

What is the formula for the volume of a **cylinder**?

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A13

- a) Find the area of the end
- b) Multiply by the height

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Q10

What is the formula for the volume of a **cone**?

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A14

Add all the outside lengths together

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Q11

What is the formula for the volume of a **sphere**?

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A15

- a) Square
- b) Add or take away
- c) Square root

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Q12

What is a **hemisphere**?

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A16

If the side you are finding is the longest one

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Q13

How do you find the volume of a **prism**?

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A9

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

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Q14

How do you find the **perimeter** of a shape?

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A10

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

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Q15

What are the three steps involved in a **Pythagoras** question?

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A11

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

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Q16

When do you choose to **add** in a Pythagoras question?

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A12

Half a sphere

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Q17

When do you choose to **take away** in a Pythagoras question?

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A21

Measure the length on the page and then multiply by the scale factor

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Q18

How do you calculate gradient?

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A22

- a) Start from North
- b) Measure clockwise
- c) Use three digits

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Q19

What are the units for a gradient

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A23

Two numbers and a comparing word.

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Q20

If you are asked to choose a scale for a scale drawing, what would you usually begin the scale by writing?

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A24

Write the unrounded answer as well as the rounded one.

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Q21

In a scale drawing, how do you work out what length to draw on the page?

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A17

If the side you are finding is a shorter one

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Q22

What do you have to remember when measuring a **bearing**?

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A18

Vertical distance  $\div$  Horizontal distance

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Q23

What do you need to include when a question asks you to **'explain your answer' or 'give a reason'**?

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A19

There are no units. It is just a number.

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Q24

When a question asks you to round your answer, what do you have to remember?

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A20

1 cm = ...