

Name

ANSWERS

Class



MATHS TEACHER HUB

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Surface area

(9 – 1) Topic booklet

Foundation

These questions have been collated from previous years GCSE Mathematics papers.

You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser.

Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are NOT accurately drawn, unless otherwise indicated.
- You must **show all your working out.**
- If the question is a 1F question you are not allowed to use a calculator.
- If the question is a 2F or a 3F question, you may use a calculator to help you answer.

Information

- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Answer ALL questions

Write your answers in the space provided.

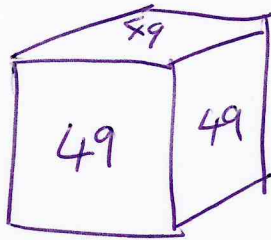
You must write down all the stages in your working.

- 13 The total surface area of a cube is 294 cm^2 .

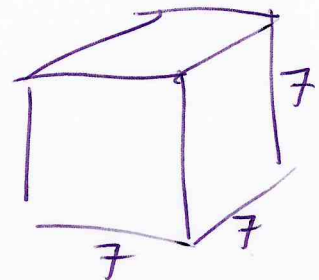
Work out the volume of the cube.

$$\begin{array}{r} 049 \\ 6 \overline{) 294} \end{array}$$

$$49 \text{ cm}^2 = \text{each side}$$



$$\sqrt{49} = 7$$



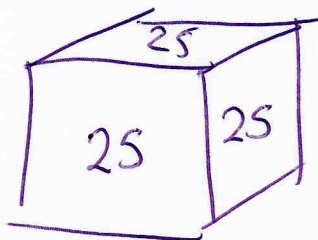
$$\underline{\quad 343 \quad} \text{ cm}^3$$

22 A cube has a total surface area of 150cm^2

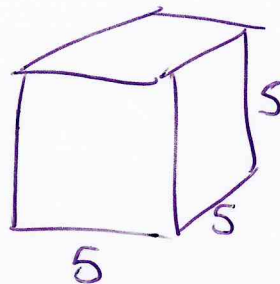
Work out the volume of the cube.

$$\begin{array}{r} 025 \\ 6 \overline{)150} \end{array}$$

$25\text{cm}^2 = \text{each side}$



$$\sqrt{25} = 5$$



125 cm^3