Examiner's use only

Team Leader's use only

Materials required for examination
Ruler graduated in centimetres and
millimetres, protractor, compasses,
pen, HB pencil, eraser, calculator.
Tracing paper may be used.

Items included with question papers
Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature.
Check that you have the correct question paper.
Answer ALL the questions. Write your answers in the spaces provided in this question paper.
You must NOT write on the formulae page.
Anything you write on the formulae page will gain NO credit.
If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. **(2)**.
There are 11 questions in this question paper. The total mark for this paper is 25.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used.
If your calculator does not have a π button, take the value of π to be 3.142 unless the question instructs otherwise.

Advice to Candidates

Show all stages in any calculations.
Work steadily through the paper. Do not spend too long on one question.
If you cannot answer a question, leave it and attempt the next one.
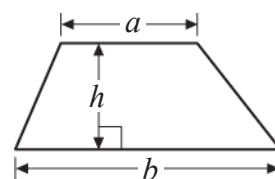Return at the end to those you have left out.

Turn over

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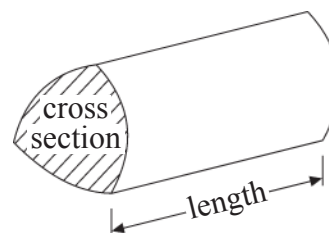
GCSE Mathematics

Formulae: Foundation Tier

You must not write on this formulae page.
Anything you write on this formulae page will gain NO credit.

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

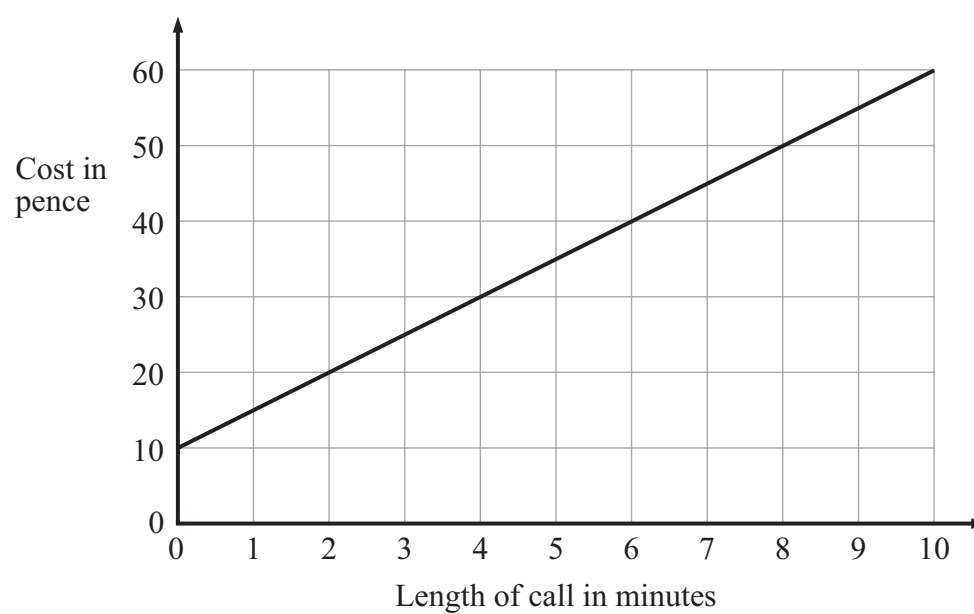**Volume of prism** = area of cross section × length

Answer ALL ELEVEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. This graph can be used to work out the cost, in pence, of a telephone call.

Cost in pence

(graph with Length of call in minutes on x-axis from 0 to 10, Cost in pence on y-axis from 0 to 60)

Length of call in minutes

The length of a call is 6 minutes.

(a) Use the graph to find the cost of the call.

.... p

(1)

The cost of another call is 30p.
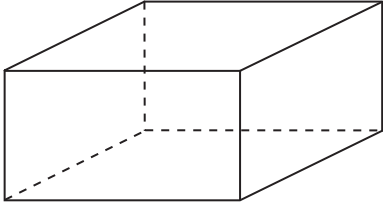
(b) Use the graph to find the length of the call.

.... minutes

(1)

(Total 2 marks)

Q1

2. Write down a sensible **metric** unit for measuring

    (i) the height of a mountain,

        ....

    (ii) the amount of water in a pond.

        ....

(Total 2 marks)

Q2

3.

Prices	
Milkshake	90p
Can of orange	65p
Beefburger	£2.45
Egg and chips	£2.75

Nicola buys **two** milkshakes and **one** beefburger.

Work out the total cost.

£..................................

(Total 2 marks)

Q3

---

4. Here is a diagram of a solid cuboid.

    (i) Write down the number of faces of the cuboid.

        ....

    (ii) Write down the number of edges of the cuboid.

        ....

Q4

(Total 2 marks)

5. Here is a list of eight numbers.

5   6   7   8   9   10   11   12

From the list, write down

(i) the square number

....

(ii) the cube of 2

....

(Total 2 marks)

6. (a) Simplify $5m - 2m$

....
(1)

(b) Simplify $4c \times 2d$

....
(1)

(c) Simplify $3a + 6b + a - 4b$

....
(2)

(Total 4 marks)

7.

Concert tickets	
Adult ticket	£7.50
Child ticket	£3.50

Mr Brown buys 2 adult tickets and some child tickets.
The total cost is £39.50

Work out how many child tickets he buys.

....

(Total 2 marks)

8.

Small box
6 cm 5 cm
10 cm

Carton
30 cm
40 cm
30 cm

Diagrams **NOT**
accurately drawn

A small box measures 6 cm by 10 cm by 5 cm.
A carton measures 30 cm by 30 cm by 40 cm.

The carton is completely filled with small boxes.

Work out the number of small boxes in the carton.

....

(Total 3 marks)

Q8

9. Work out the value of $\dfrac{6.5^2}{7.3 - 2.54}$

Write down all the figures on your calculator display.
You must give your answer as a decimal.

....

(Total 2 marks)

10. The diagram shows the positions of two ships, *A* and *B*.

N

N

B

Diagram **NOT**
accurately drawn

40°

A

Ali says
    "The bearing of ship *B* from ship *A* is 040°".

Ali is wrong.

(a) Explain why.

....

....

(1)

(b) Work out the bearing of ship *A* from ship *B*.

°
....

(1)

(Total 2 marks)

11. Write as a power of 7

(i) $7^6 \times 7^2$

....

(ii) $7^9 \div 7^5$

....

(Total 2 marks)

TOTAL FOR PAPER: 25 MARKS

END