Centre No.						Paper Reference					Surname		Initial(s)
Candidate No.						**5**	**5**	**1**	**2**	**/ 12 B**	Signature		

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)**.
This section has 7 questions. The total mark for this section is 19. The total mark for this paper is 38.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used for Section B only.
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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Area of trapezium = $\frac{1}{2}(a + b)h$

Volume of prism = area of cross section × length
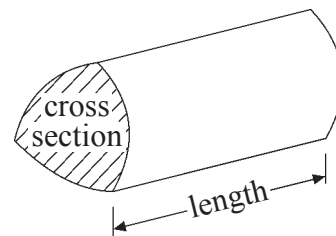
SECTION B

Answer ALL SEVEN questions.

Write your answers in the spaces provided.

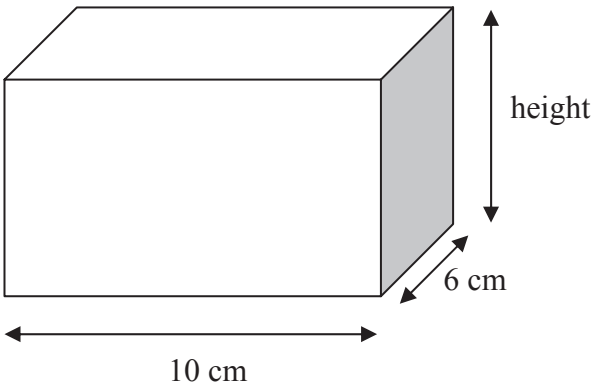**You must write down all stages in your working.**

1. The diagram shows a cuboid.

Diagram **NOT**
accurately drawn

height

6 cm

10 cm

The cuboid has

a volume of 300 cm^3,
a length of 10 cm,
a width of 6 cm.

Work out the height of the cuboid.

.... cm

(Total 2 marks)

2. (i) Work out the value of $3.7^2 - \sqrt{172}$

Write down all the figures on your calculator display.

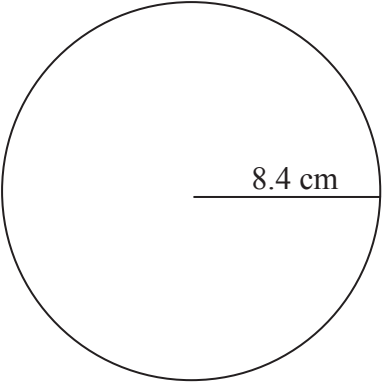......................................

(ii) Write your answer to (i) correct to 1 significant figure.

....

(Total 3 marks)

3. Mrs Jones uses gas.

She pays

43.2p for each unit of gas she uses
and
a fixed charge of £7.53

She uses 164 units of gas.

Work out the **total** amount Mrs Jones pays.

£ ....

(Total 3 marks)

4.

Diagram **NOT** accurately drawn

8.4 cm

The radius of a circle is 8.4 cm.

Work out the area of the circle.
Give your answer correct to 3 significant figures.

....cm^2

(Total 2 marks)

5. The table shows information about the weight of the luggage for each of 40 passengers on a plane.

Weight (w kg)	Frequency	
$0 < w \leqslant 4$	4	
$4 < w \leqslant 8$	10	
$8 < w \leqslant 12$	12	
$12 < w \leqslant 16$	9	
$16 < w \leqslant 20$	5	

Work out an estimate for the mean weight.

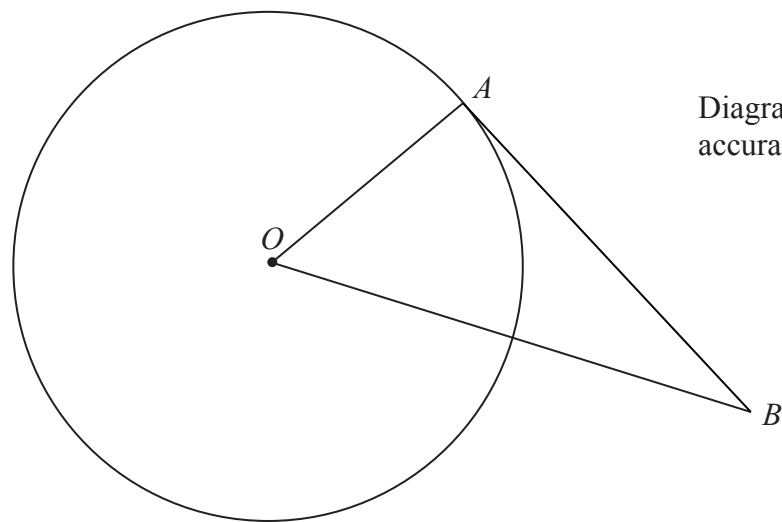...................... kg

(Total 4 marks)

6.

Diagram **NOT** accurately drawn

The diagram shows a circle, centre *O*.
AB is the tangent to the circle at the point *A*.

(i) Write down the size of angle *OAB*.

.... °

(ii) Give a reason for your answer.

....

....

(Total 2 marks)

Q6

N 2 4 9 4 6 A 0 6 0 8

7. *ABC* is a triangle.

C

7.3 cm

Diagram **NOT** accurately drawn

65°

A *B*
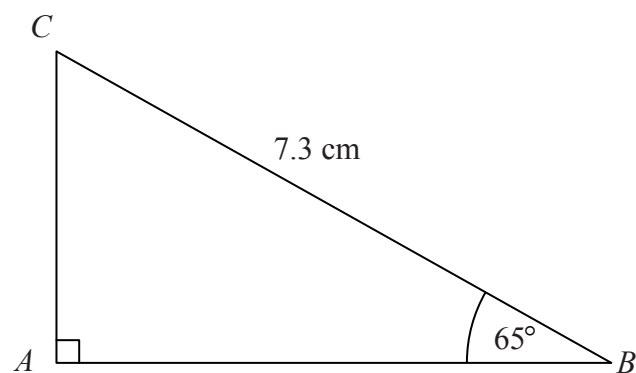
Angle *CAB* = 90°.
Angle *ABC* = 65°.
BC = 7.3 cm.

Calculate the length of *AB*.
Give your answer correct to 3 significant figures.

.... cm

Q7

(Total 3 marks)

TOTAL FOR SECTION B: 19 MARKS

TOTAL FOR PAPER: 38 MARKS

END

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