Edexcel GCSE

Mathematics B (Modular) – 2544

Paper 10 – Section A (Calculator)

Foundation Tier

Unit 3 Test

Monday 12 November 2007 – Afternoon

Time for Section A: 30 minutes

Materials required for examination	**Items included with question papers**
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.	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 10 questions. The total mark for this section is 25. The total mark for this paper is 50.
There are 8 pages in this question paper. Any blank pages are indicated.
Calculators may be used for Section A 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.

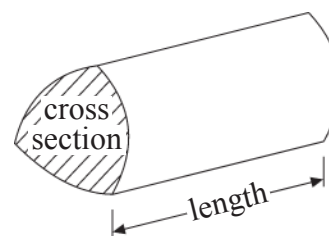*Turn over*

GCSE Mathematics (Modular) 2544

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 = $\frac{1}{2}(a+b)h$
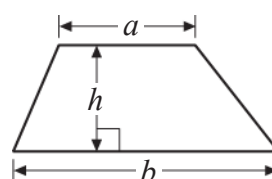
Volume of prism = area of cross section × length

SECTION A

Answer ALL TEN questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

1. (a) Write the number **five thousand and thirty six** in figures.

....
(1)

(b) Write the number 3478 to the nearest hundred.

....
(1)

(Total 2 marks)

2. Here are the first five terms of a simple sequence.

$$4 \qquad 7 \qquad 10 \qquad 13 \qquad 16$$

(a) Write down the next two terms of the sequence.

.... , ...
(2)

(b) Explain how you found your answer.

....
(1)

(Total 3 marks)

3. Write these numbers in order of size.
Start with the smallest number.

0.73   0.37   0.07   0.3   0.307

....

(Total 1 mark)

4. Work out 35% of £400

£ ....

(Total 2 marks)

5. (a) Complete the table of values for $y = 3x - 1$

x	-2	-1	0	1	2
y		-4		2	

(2)

(b) On the grid, draw the graph of $y = 3x - 1$

(2)
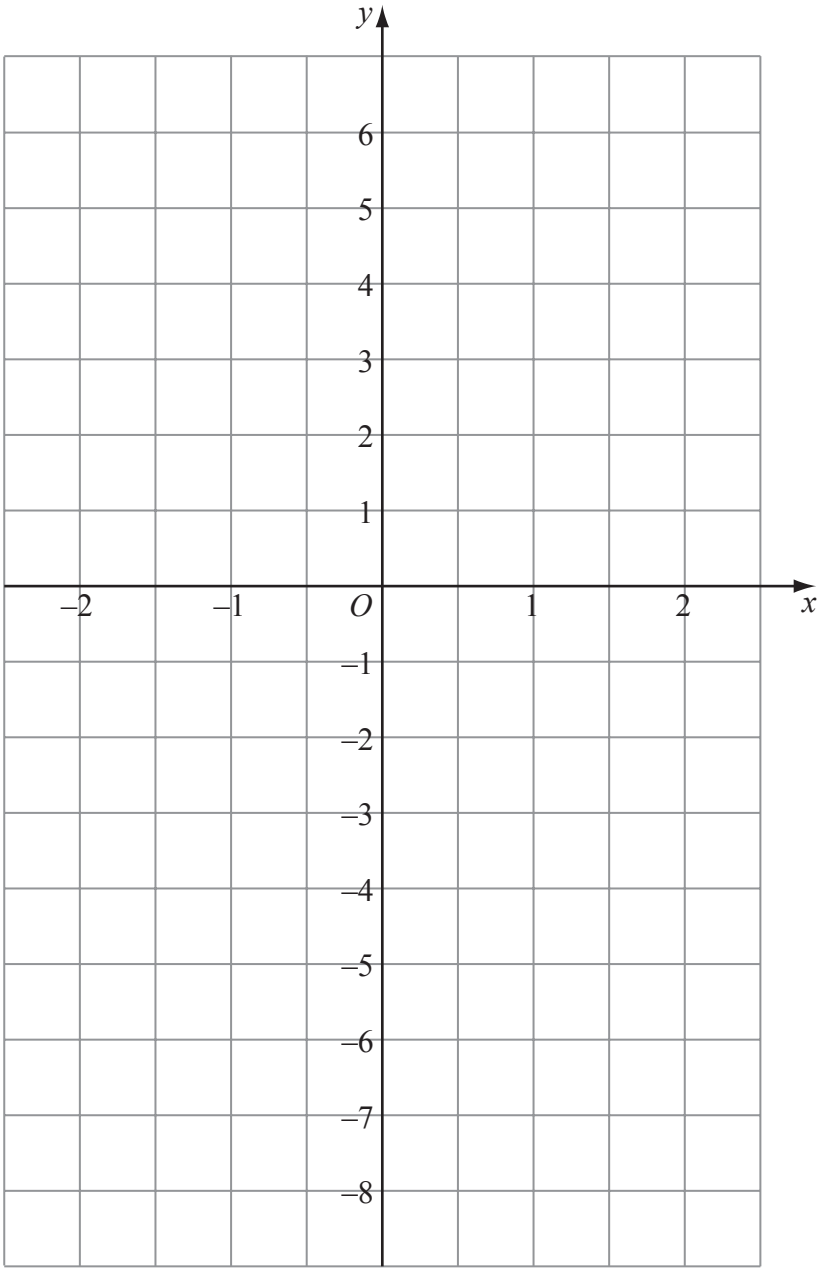
(Total 4 marks)

6.
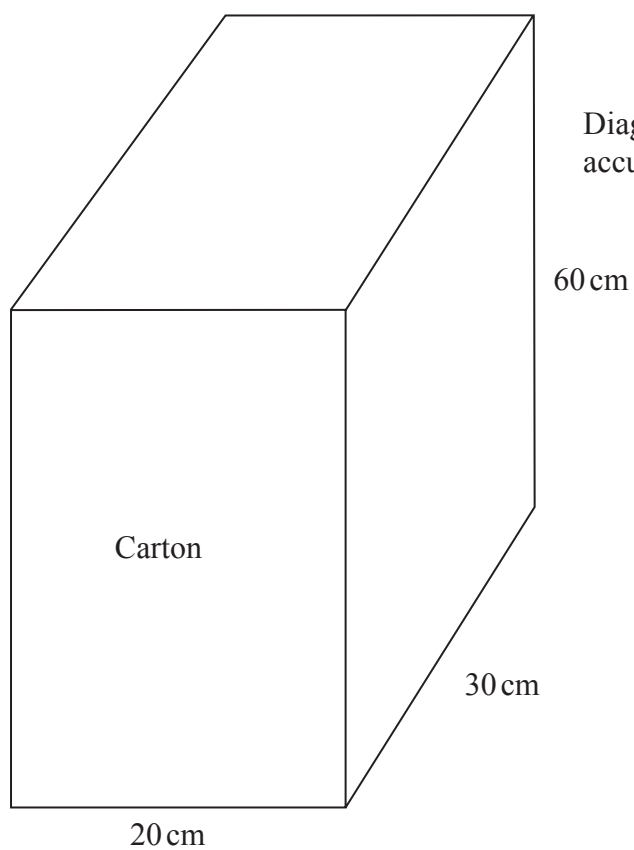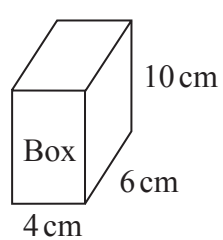
Diagrams **NOT** accurately drawn

60 cm

10 cm

Box

6 cm

4 cm

Carton

30 cm

20 cm

Boxes are packed into cartons.

A box measures 4 cm by 6 cm by 10 cm.
A carton measures 20 cm by 30 cm by 60 cm.

The carton is completely filled with boxes.

Work out the number of boxes that will completely fill **one** carton.

....

(Total 3 marks)

Q6

7. A car travels for 3 hours.
Its average speed is 75 km/h.

Work out the total distance the car travels.

.... km

(Total 2 marks)

8. (a) Simplify $g + g + g$

....
(1)

(b) Simplify $5 \times h \times k$

....
(1)

(Total 2 marks)

9. Here is part of Mrs Cook's gas bill.

> # Gas Bill
>
> New reading   6549 units
>
> Old reading   5137 units
>
>   ———
>
> Cost per unit 52p

Work out the **total** cost of the units of gas she used.

£ ....

(Total 4 marks)

10. Expand and simplify $(x + 5)(x + 2)$

....

(Total 2 marks)

TOTAL FOR SECTION A: 25 MARKS

END