Centre No.						Paper Reference								Surname	Initial(s)
Candidate No.						5	5	4	3	F	/	10	B	Signature	

Paper Reference(s)

5543F/10B

Examiner's use only

Team Leader's use only

Edexcel GCSE

Mathematics B (Modular) – 2544

Paper 10 – Section B (Non-Calculator)

Foundation Tier

Unit 3 Test

Monday 12 November 2007 – Afternoon

Time for Section B: 30 minutes

Materials required for examination
Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
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 11 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.

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.

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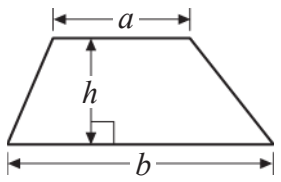
GCSE Mathematics (Modular) 2544

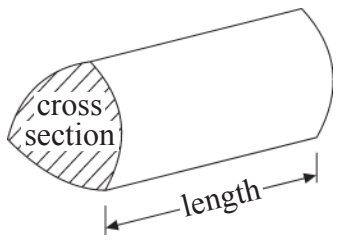
Formulae: Foundation Tier

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



Leave blank

SECTION B

Answer ALL ELEVEN questions.

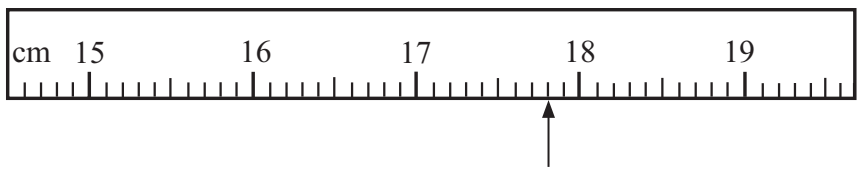
Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator for this section.

1. This is part of a ruler.

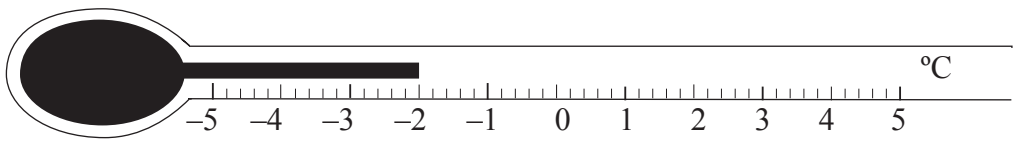
(a) Write down the length marked with an arrow.



.....cm
(1)

This is a thermometer.

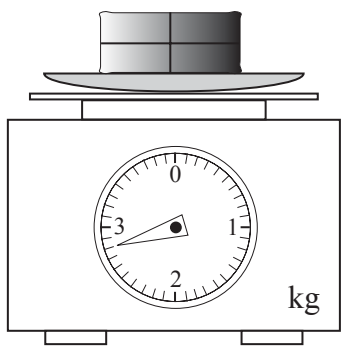
(b) Write down the temperature shown.



.....°C
(1)

This is a parcel on some scales.

(c) Write down the weight of the parcel.



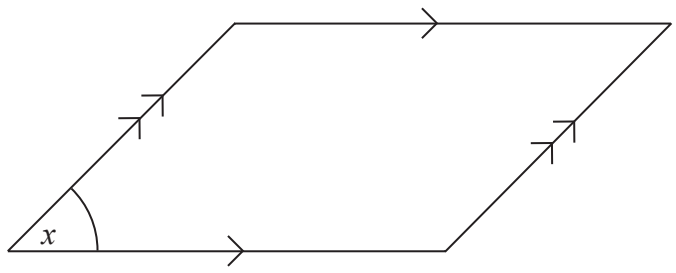
..... kg
(1)

Q1

(Total 3 marks)

Leave blank

2.



(a) Write down the name of this quadrilateral.

.....

(1)

(b) Mark, with the letter B, an obtuse angle.

(1)

(c) Write down an estimate for the size of the angle marked x.

..... °

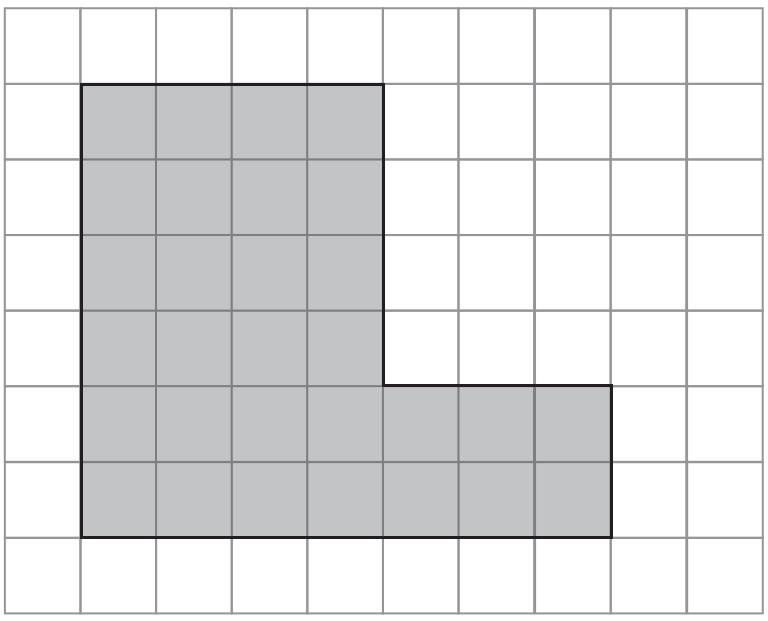
(1)

Q2

(Total 3 marks)

Leave blank

3.



A shaded shape is shown on the grid of centimetre squares.

(a) Find the perimeter of the shaded shape.

.....cm
(1)

(b) Find the area of the shaded shape.

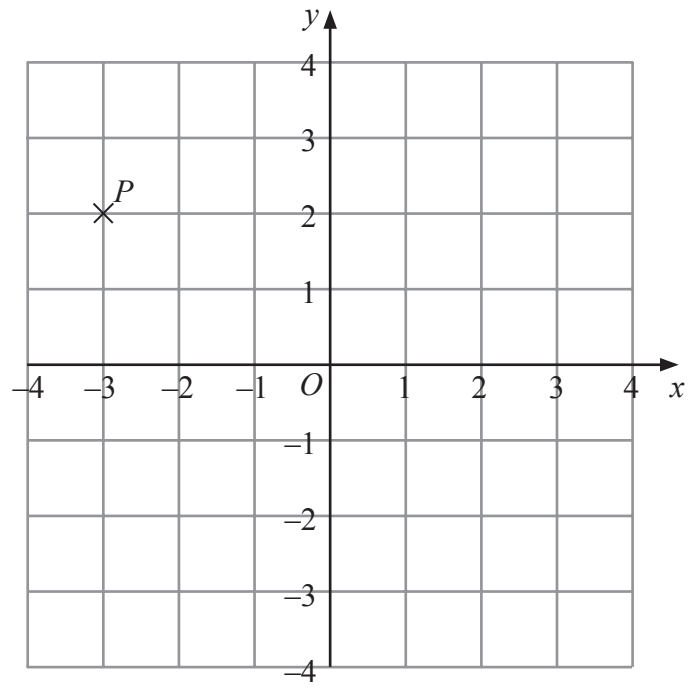
.....cm^2
(1)

Q3

(Total 2 marks)

Leave blank

4.



(a) Write down the coordinates of the point *P*.

(..... , ...)
(1)

(b) On the grid, plot the point (0, –2).
Label the point *Q*.

(1)

Q4

(Total 2 marks)

5. At **midnight**, the temperature was –8°C.
By 10 00, the temperature had increased by 6°C.

(a) Work out the temperature at 10 00

.....°C
(1)

By midday, the temperature was 4°C.

(b) Work out the difference between the temperature at midday and the temperature at **midnight**.

.....°C
(2)

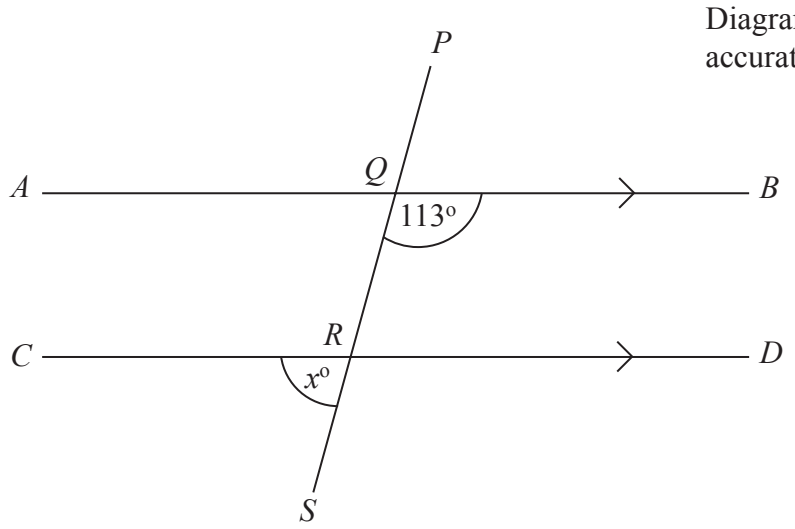
Q5

(Total 3 marks)

Leave blank

6.

Diagram **NOT** accurately drawn



AQB, CRD and *PQRS* are straight lines.
AB is parallel to *CD*.
Angle *BQR* = 113°.

Work out the value of *x*.

x = ...

Q6

(Total 2 marks)

7. James packs books into boxes.
He packs 20 books into each box.
James packs *x* boxes of books.

Write an expression, in terms of *x*, for the number of books he packs.

.....

Q7

(Total 1 mark)

8. Use the information that

$56 \times 29 = 1624$

to find the value of 56×0.29

.....

Q8

(Total 1 mark)

Leave blank

9. Write down the value of

(a) 5^2

.....
(1)

(b) $\sqrt{49}$

.....
(1)

(c) $5 + 2 \times 4$

.....
(1)
(Total 3 marks)

Q9

10. Work out an estimate for $\dfrac{29.8 \times 4.1}{0.21}$

.....
(Total 3 marks)

Q10

11. Find the highest common factor (HCF) of 30 and 45

.....
(Total 2 marks)

Q11

TOTAL FOR SECTION B: 25 MARKS
TOTAL FOR PAPER: 50 MARKS

END