

Centre No.						Paper Reference						Surname	Initial(s)			
Candidate No.						5	3	8	4	F	/	1	1	F	Signature	

Paper Reference(s)

5384F/11F

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 11 (Non-Calculator)

Foundation Tier

Unit 3

Monday 18 May 2009 – Afternoon

Time: 1 hour



Examiner's use only

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Team Leader's use only

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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).

There are 20 questions in this question paper. The total mark for this paper is 60.

There are 16 pages in this question paper. Any blank pages are indicated.

Calculators must not be used.

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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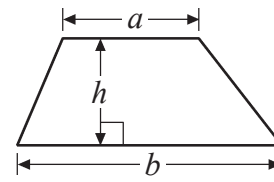
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GCSE Mathematics

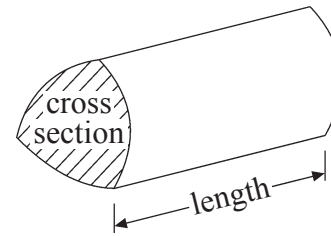
Formulae: Foundation Tier

**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 \times length



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Answer ALL TWENTY questions.

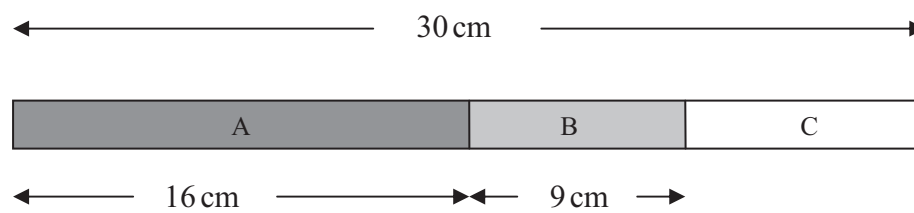
Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator.

1.

Diagram NOT
accurately drawn



Here is a picture of a stick.
The stick is in three parts, A, B and C.

The total length of the stick is 30 cm.
The length of part A is 16 cm.
The length of part B is 9 cm.

Work out the length of part C.

..... cm

(Total 2 marks)

Q1



<p>2. (a) Work out $400 - 193$</p> <p>..... (2)</p> <p>(b) Work out $4 - 9$</p> <p>..... (1)</p> <p>(c) Work out -3×5</p> <p>..... (1)</p> <p>(d) Work out $300 \div 50$</p> <p>..... (1)</p> <p>(Total 5 marks)</p>	<p>Leave blank</p> <p>Q2</p> <input type="text"/>
<p>3. (a) Work out 50% of £60</p> <p>£</p> <p>(1)</p> <p>(b) Work out 25% of 20 metres.</p> <p>..... metres</p> <p>(1)</p> <p>(Total 2 marks)</p>	<p>Q3</p> <input type="text"/>



Leave blank

4. Here is a table for a two-stage number machine.
The machine multiplies by 2 and then subtracts 3

Complete the table.



Input	Output
2	1
4	5
10
.....	27

Q4

(Total 3 marks)

5. Here are five shapes.



A



B



C



D



E

Write down the letter of a shape that has

- (i) **no** lines of symmetry,

.....

- (ii) exactly **one** line of symmetry,

.....

- (iii) exactly **two** lines of symmetry,

.....

- (iv) rotational symmetry of order two.

.....

Q5

(Total 4 marks)



Leave blank

6. The table shows temperatures at midnight and midday on one day in five cities.

City	Midnight temperature	Midday temperature
Belfast	-3 °C	4 °C
Cambridge	-1 °C	4 °C
Edinburgh	-7 °C	-1 °C
Leeds	-6 °C	3 °C
London	-2 °C	6 °C

(a) Which city had the lowest midnight temperature?

.....
(1)

(b) How many degrees higher was the midnight temperature in Cambridge than the midnight temperature in Leeds?

..... °C
(1)

(c) Which city had the greatest rise in temperature from midnight to midday?

.....
(1)

Q6

(Total 3 marks)

7. (a) Solve $x + 4 = 10$

$x =$
(1)

(b) Solve $4y = 20$

$y =$
(1)

(c) Solve $19 - m = 12$

$m =$
(1)

Q7

(Total 3 marks)



Leave
blank

8. The table shows part of a bus timetable from Shotton to Alton.

Shotton	0730	0800	0900	1000	1100
Crook	0745	0815	0915	1015	1115
Prudhoe	0758	0828	0928	1028	1128
Hexham	0815	0845	0945	1045	1145
Alton	0830	0900	1000	1100	1200

A bus leaves Shotton at 0730

(a) What time should it arrive at Alton?

.....
(1)

Another bus leaves Prudhoe at 0828

(b) How many minutes should it take to get to Hexham?

..... minutes
(1)

Serena lives in Crook.

She has to be in Hexham by quarter past 11

(c) What is the time of the latest bus she can catch from Crook to arrive in Hexham by quarter past 11?

.....
(1)

(Total 3 marks)

Q8

7

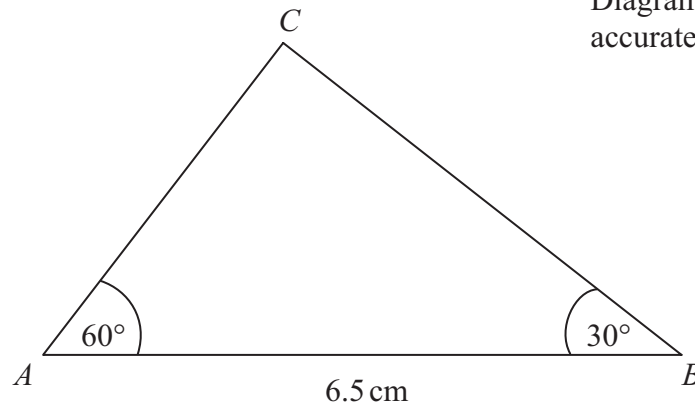
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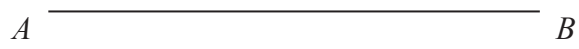
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9.

Diagram **NOT** accurately drawn



- (a) Make an accurate drawing of triangle *ABC*.
The side *AB* has already been drawn for you.



(2)

- (b) Measure the size of the angle at *C* in your triangle.



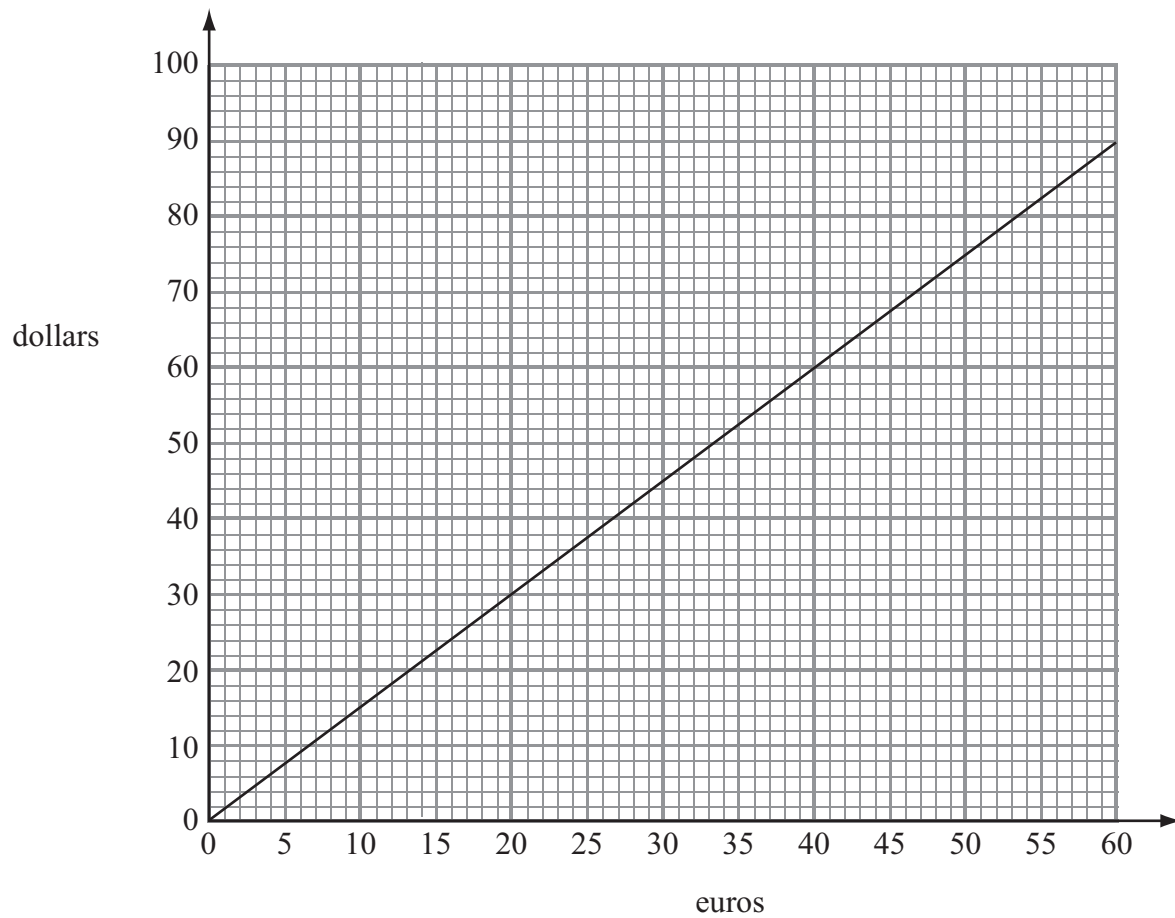
(1)

Q9

(Total 3 marks)



10.



The conversion graph can be used to change between euros and dollars.

(a) Use this graph to change 30 euros into dollars.

..... dollars
(1)

(b) Use this graph to change 90 dollars into euros.

..... euros
(1)

Bill changes 100 euros to dollars.

(c) Change 100 euros to dollars.

..... dollars
(2)

(Total 4 marks)

Q10



11. Work out $\frac{1}{8} + \frac{3}{4}$

Leave
blank

.....
Q11

(Total 2 marks)

12.

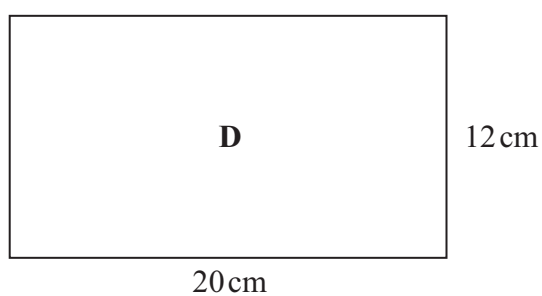
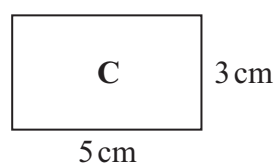


Diagram **NOT**
accurately drawn

Rectangle **D** is an enlargement of rectangle **C**.

Find the scale factor of the enlargement.

.....
Q12

(Total 2 marks)



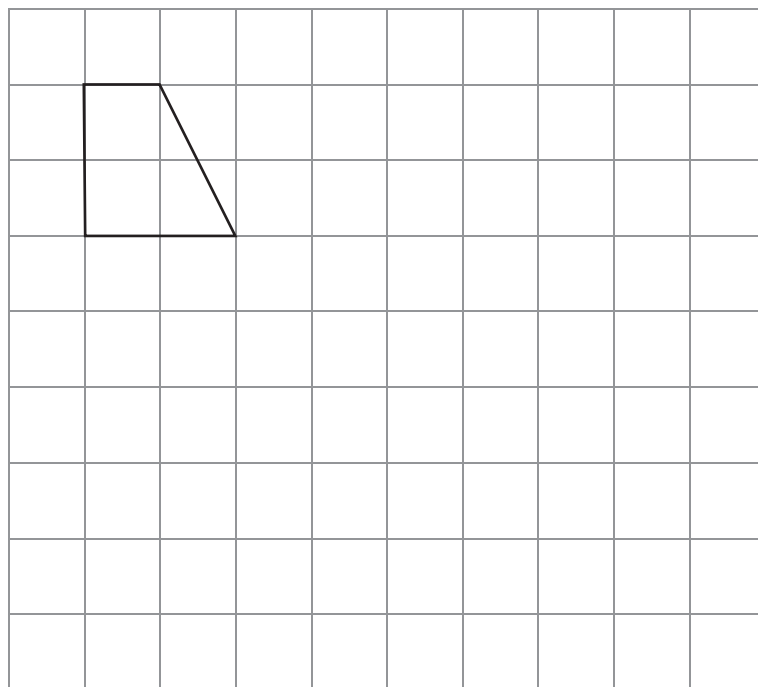
13. Work out 36×24

Leave
blank

.....
(Total 3 marks)

Q13

14. On the grid, show how this trapezium tessellates.
You should draw at least 6 trapeziums.



(Total 2 marks)

Q14



N 3 4 8 0 8 A 0 1 1 1 6

15. Mary scored 14 out of 20 in a test.

Find 14 out of 20 as a percentage.

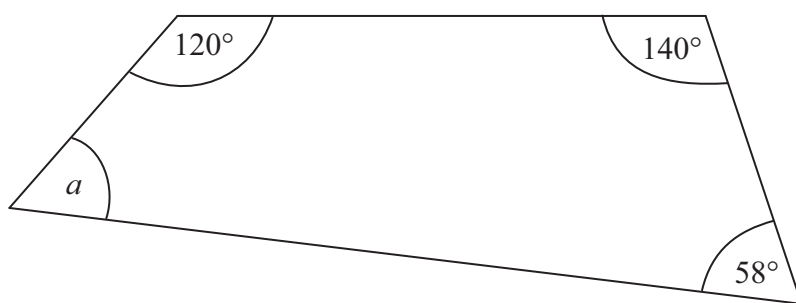
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..... %
(Total 2 marks)

Q15

16.

Diagram **NOT**
accurately drawn



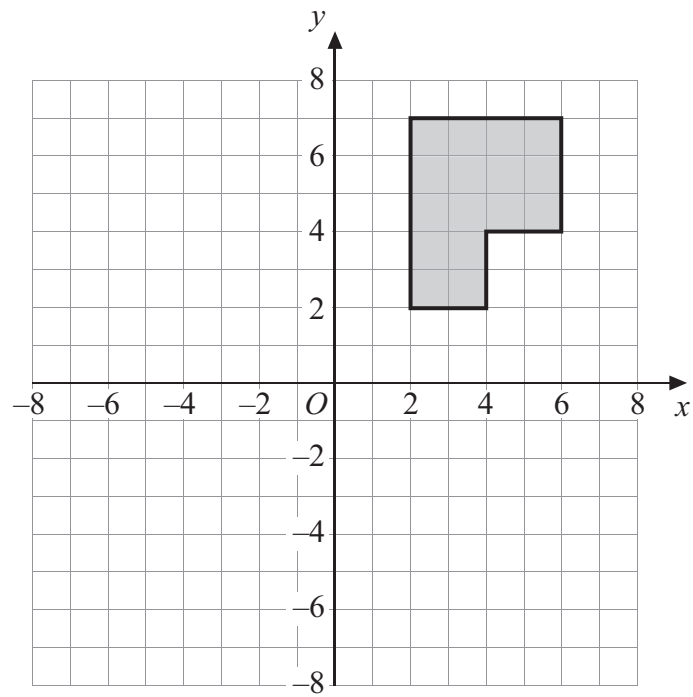
Work out the size of the angle a .

.....
(Total 2 marks)

Q16

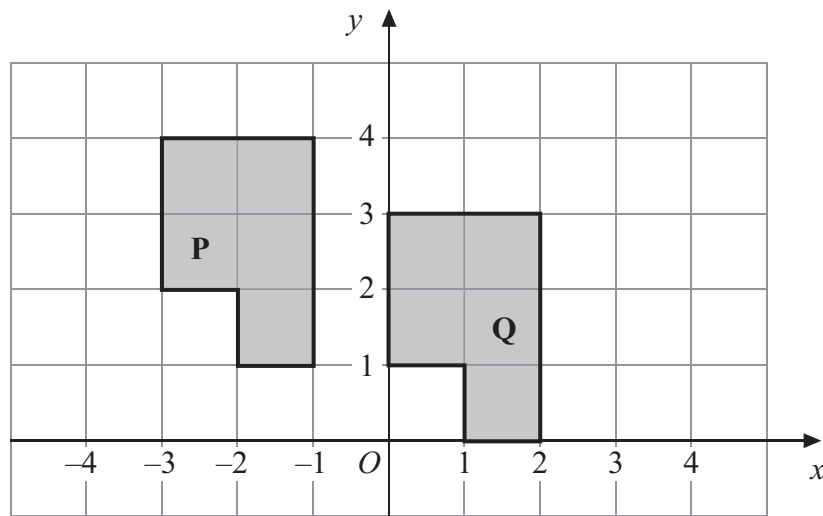


17.



(a) Rotate the shaded shape 90° clockwise about the point O .

(2)



(b) Describe fully the single transformation that will map shape **P** onto shape **Q**.

.....

(2)

Q17

(Total 4 marks)



Leave
blank

18. Here is a list of ingredients for making 8 cheese scones.

Ingredients for 8 cheese scones

200 g self-raising flour

60 g butter

30 g cheese

150 ml milk

Work out the amount of each ingredient needed to make 12 cheese scones.

..... g self-raising flour

..... g butter

..... g cheese

..... ml milk

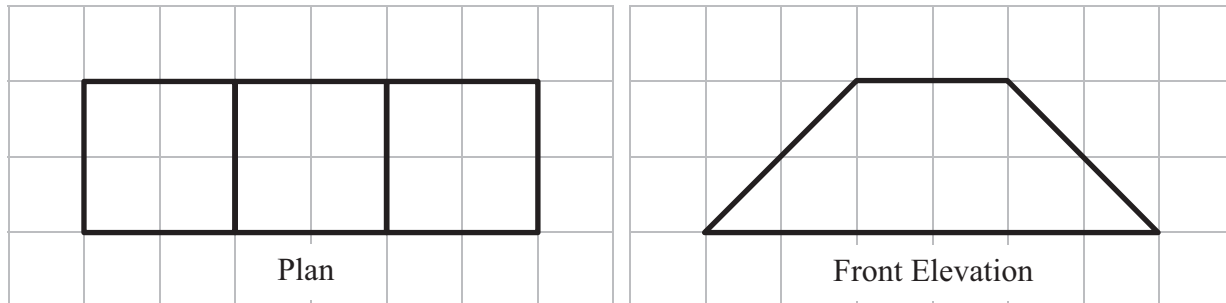
Q18

(Total 3 marks)

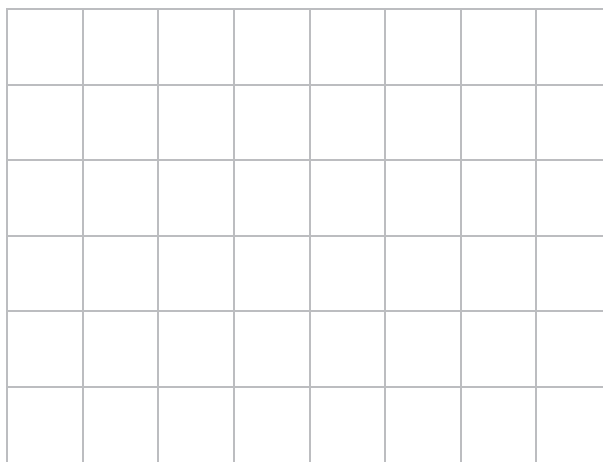


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19. Here are the plan and front elevation of a solid shape.



(a) On the grid below, draw the side elevation of the solid shape.



(2)

(b) In the space below, draw a sketch of the solid shape.

(2)

Q19

(Total 4 marks)



Leave
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20.

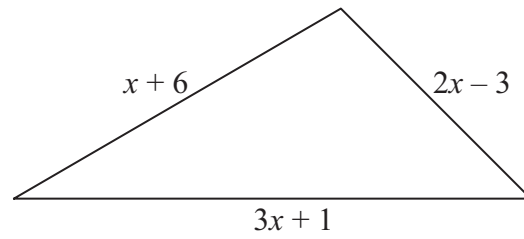


Diagram **NOT**
accurately drawn

In the diagram, all measurements are in centimetres.

The lengths of the sides of the triangle are

$$\begin{aligned} &x + 6 \\ &2x - 3 \\ &3x + 1 \end{aligned}$$

(a) Find an expression, in terms of x , for the perimeter of the triangle.

Give your expression in its simplest form.

.....
(2)

The perimeter of the triangle is 37 cm.

(b) Find the value of x .

$$x = \text{.....} \quad (2)$$

Q20

(Total 4 marks)

TOTAL FOR PAPER: 60 MARKS

END

