

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

Tuesday 9 November 2010 – Morning

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 21 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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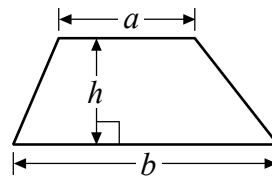
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GCSE Mathematics 2381

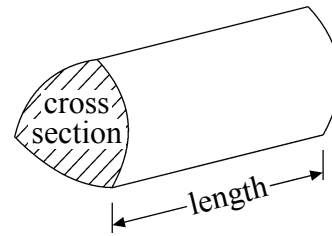
Formulae: Foundation Tier

**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



Leave
blank


Answer ALL TWENTY ONE questions.

Write your answers in the spaces provided.

You must write down all stages in your working.

You must NOT use a calculator.

1. Complete this bill.

Joe's Car Shop			
Item	Number of items	Costs of one item	Total
Spanner	2	£3.99	£7.98
De-icer	4	£1.50	£.....
Wiper blade	2	£.....	£9.00
Total cost			£.....

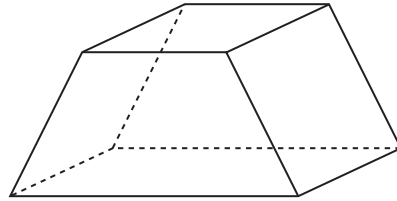
Q1

(Total 3 marks)



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2. Here is a diagram of a prism.



Write down the number of

(i) faces

.....

(ii) edges

.....

(iii) vertices

.....

(Total 3 marks)

Q2

3. $d = 6$

(a) (i) Work out the value of $3 + d$

.....

(ii) Work out the value of $2d$

.....

(2)

$$h = 3f + 4g$$

$$f = 2$$
$$g = -1$$

(b) Work out the value of h

$h =$

(2)

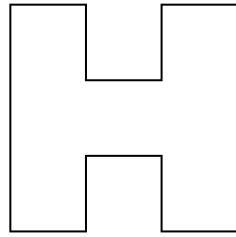
Q3

(Total 4 marks)



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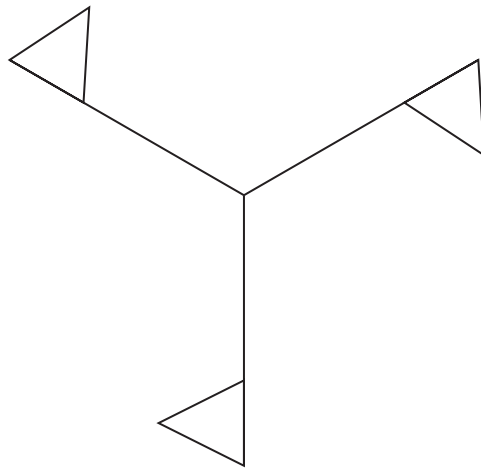
4. (a) On the shape, draw all the lines of symmetry.



(2)

The shape below has rotational symmetry.

(b) Write down the order of rotational symmetry.



.....
(1)

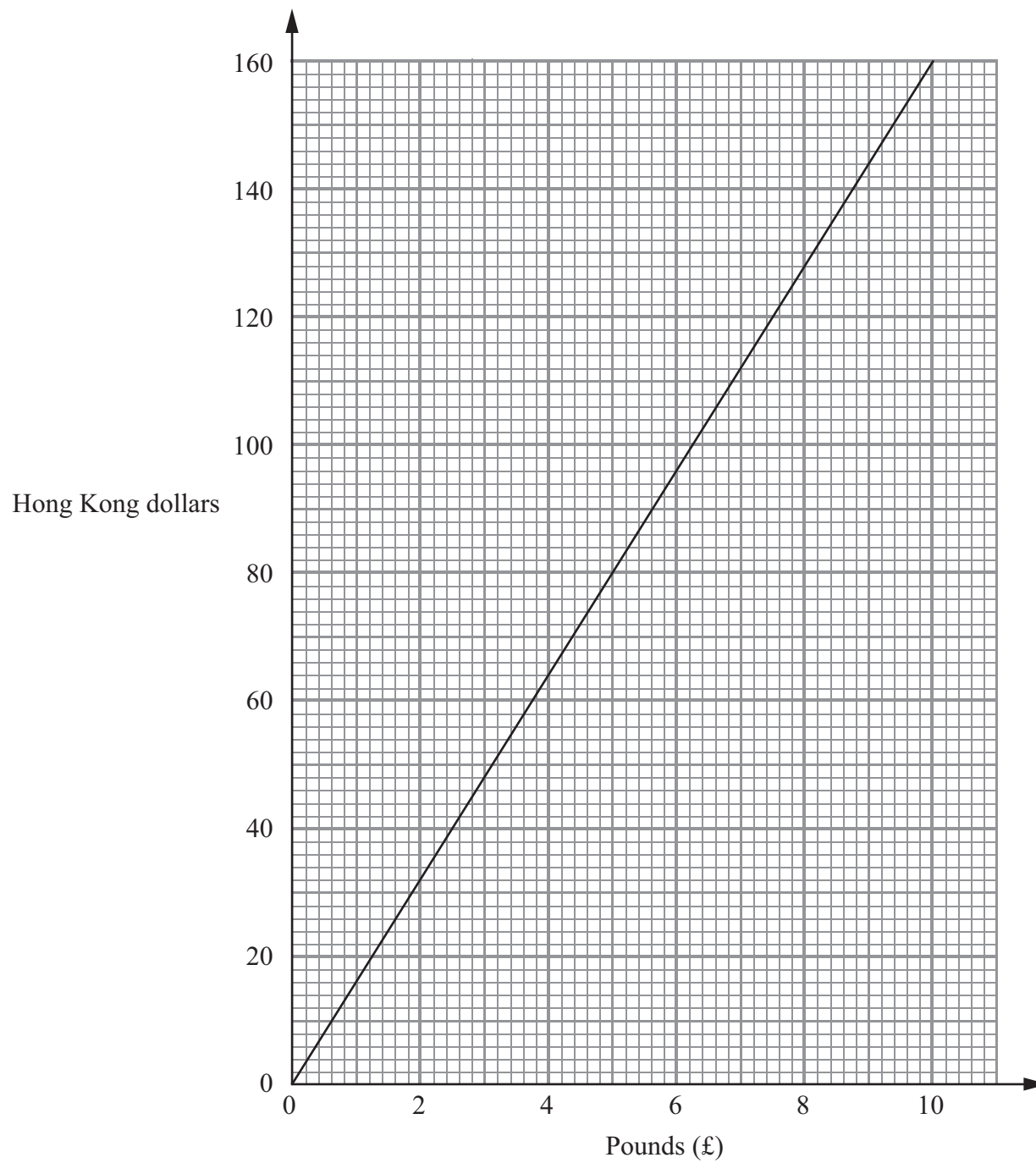
Q4

(Total 3 marks)



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5. This graph can be used to change between pounds (£) and Hong Kong dollars.



(a) Use the graph to change £5 to Hong Kong dollars.

..... Hong Kong dollars
(1)

(b) Use the graph to change 120 Hong Kong dollars to pounds.

£
(1)

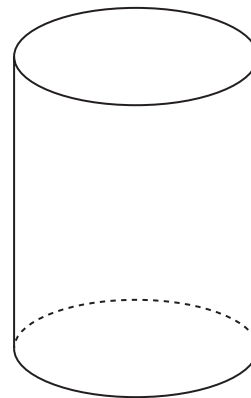
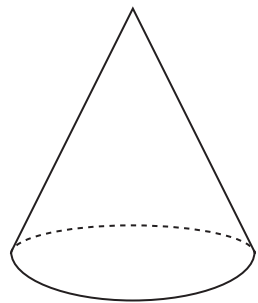
(Total 2 marks)

Q5



Leave blank

6. Write down the mathematical name of each of these solid shapes.



(i)

(ii)

(Total 2 marks)

Q6

7. Change $\frac{3}{5}$ into a decimal.

.....

(Total 2 marks)

Q7

8. (a) Work out the value of

(i) $-3 + 7$

.....

(ii) $4 - 6$

.....

(2)

(b) Work out the value of

(i) $-10 \div 5$

.....

(ii) -3×-4

.....

(2)

(Total 4 marks)

Q8



Leave blank

9.

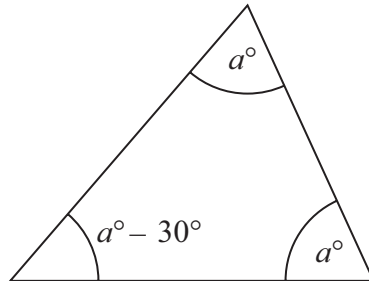


Diagram **NOT** accurately drawn

The diagram shows a triangle.

The size of the angles, in degrees, are

a
 a
 $a - 30$

Work out the value of a .

$a = \dots\dots\dots$

Q9

(Total 3 marks)

10. (a) Solve $p + p + p = 15$

$p = \dots\dots\dots$

(1)

(b) Solve $f + 5 = 8$

$f = \dots\dots\dots$

(1)

Q10

(Total 2 marks)



Leave
blank

11. (a) Mark the midpoint of the line AB with a cross (\times).
Label the midpoint with the letter P .

(1)

A ————— B

- (b) Use the point P to draw a circle with a radius of 5 cm.

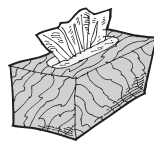
(2)

Q11

(Total 3 marks)

12. There are 150 tissues in a box.

Susie uses $\frac{2}{5}$ of these tissues.



How many tissues are there now in the box?

..... tissues

Q12

(Total 3 marks)



13. Jonty invests £500 for 2 years at 4% **simple interest** each year.

Work out the total amount of interest Jonty gets.

Leave
blank

£

(Total 2 marks)

Q13

14. Work out 451×23

.....

(Total 3 marks)

Q14





<p>15. There are 540 workers in a factory.</p> <p>240 of the workers are female.</p> <p>15% of male workers are more than 50 years of age.</p> <p>Work out the number of male workers that are more than 50 years of age.</p>	Leave blank
	Q15 <input type="text"/>

.....

(Total 3 marks)

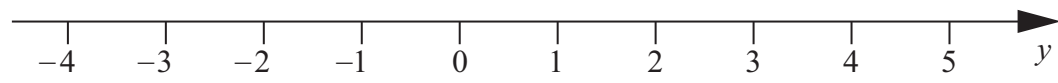


N 3 7 7 3 1 A 0 1 1 1 6



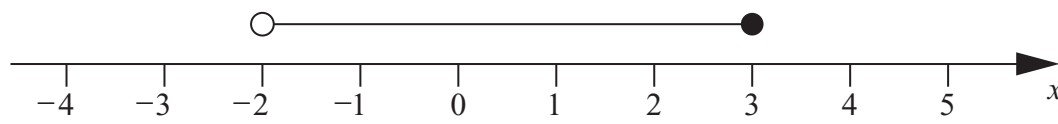
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16. (a) On the number line below mark the inequality $-1 < y < 4$



(1)

(b) Here is an inequality, in x , shown on a number line.



Write down the inequality.

.....
(2)

(c) Solve the inequality $3t + 5 > 17$

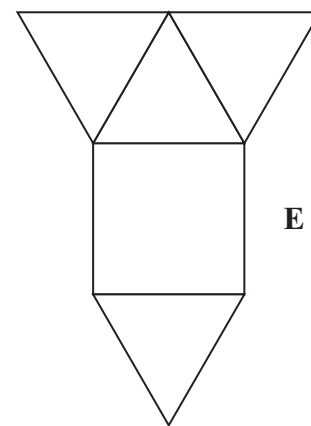
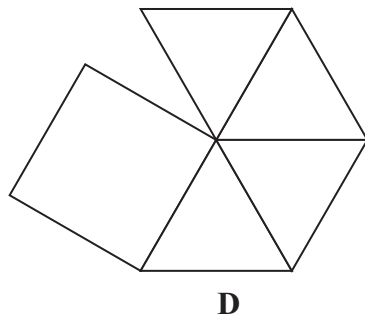
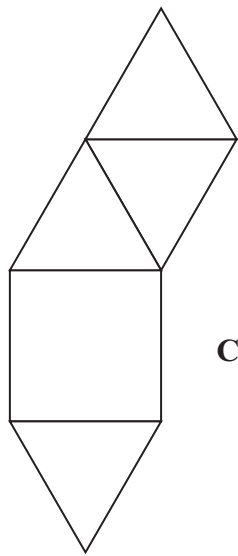
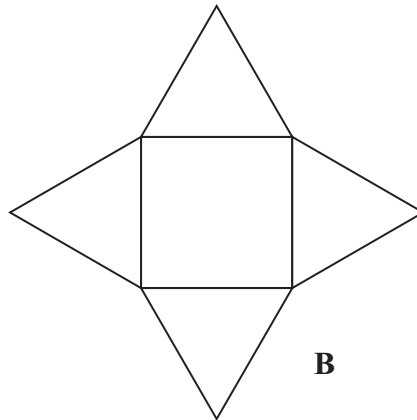
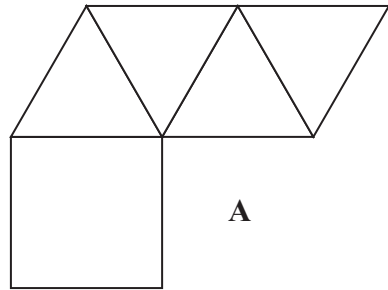
.....
(2)

(Total 5 marks)

Q16



17. Here are 5 diagrams.



Two of these diagrams show a net for a square-based pyramid.

Write down the letter of each of these two diagrams.

..... and

(Total 2 marks)

Q17

18. There are 24 students in a dance class.
6 of the students are boys.
18 of the students are girls.

Write, as a ratio, the number of boys to the number of girls in the dance class.
Give your answer in its simplest form.

.....

(Total 2 marks)

Q18



19. Work out $3\frac{4}{5} - 1\frac{1}{4}$

Leave
blank

Q19

.....
(Total 3 marks)

20. Use ruler and compasses to **construct** the perpendicular bisector of the line AB .
You must show all your construction lines.

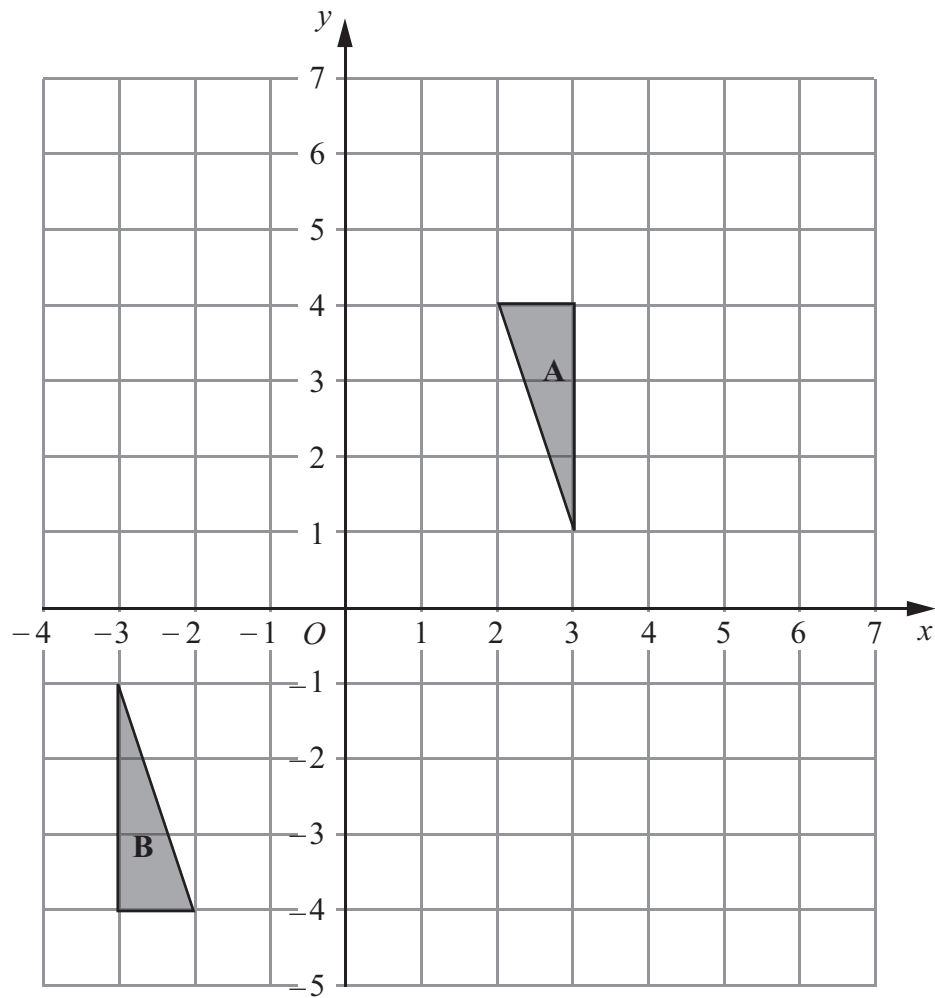
A ————— B

Q20

(Total 2 marks)



21.



Triangle **A** and triangle **B** are drawn on the grid.

(a) Describe fully the single transformation which maps triangle **A** onto triangle **B**.

.....

 (3)

(b) Translate triangle **A** by the vector $\begin{pmatrix} 3 \\ 0 \end{pmatrix}$.

Label the new triangle **C**.

(1)

Q21

(Total 4 marks)

TOTAL FOR PAPER: 60 MARKS

END



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