Surname	Initial(s)
Signature	

Paper Reference(s)

5382F/07

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier

Unit 2 Stage 1

Wednesday 30 June 2010 – Morning

Time: 30 minutes

Materials required for examination
Multiple Choice Answer Sheet
Ruler graduated in centimetres and millimetres, protractor, compasses, HB pencil, eraser.

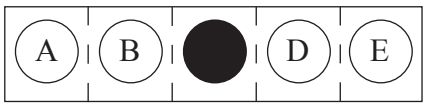
Items included with question papers
Nil

Instructions to Candidates

Use a HB pencil. Do not open this booklet until you are told to do so.

Before the test begins:
Check that the answer sheet is for the correct test and that it contains your candidate details.

How to answer the test:
For each question, choose the right answer, A, B, C, D or E and mark it in HB pencil on the answer sheet.
For example, the answer C would be marked as shown.



Mark only **one** answer for each question. If you change your mind about an answer, rub out the first mark **completely**, then mark your new answer.

Answer **all** the questions.
Do any necessary calculations and rough work in this booklet. **Calculators must not be used.**
You must not take this booklet or the answer sheet out of the examination room.

Information for Candidates

There are 25 questions in this question paper. The total mark for this paper is 25.
There are 12 pages in this question paper. Any blank pages are indicated.

Advice to Candidates

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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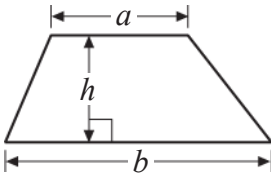
GCSE Mathematics

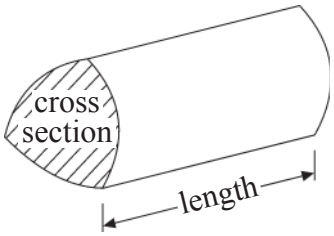
Formulae: Foundation Tier

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



Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. What is the number 70 560 in words?

Seventy thousand and fifty six	Seven thousand five hundred and sixty
A	**B**
Seventy thousand five hundred and sixty	Seventy thousand five hundred and six
C	**D**
Seven thousand and fifty six	
E	

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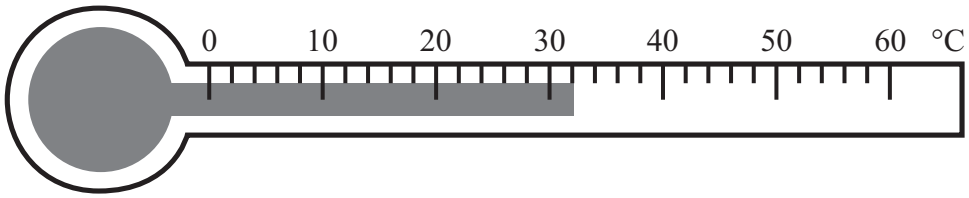
2. What temperature is shown on this thermometer?



31°C	30.2°C	30.1°C	32°C	44°C
A	**B**	**C**	**D**	**E**

---

3. What is the number 87 942 rounded to the nearest thousand?

87 000	90 000	87 900	88 000	100 000
A	**B**	**C**	**D**	**E**

---

4. One number is **not** a factor of 24
Which number?

2	4	8	12	16
A	**B**	**C**	**D**	**E**

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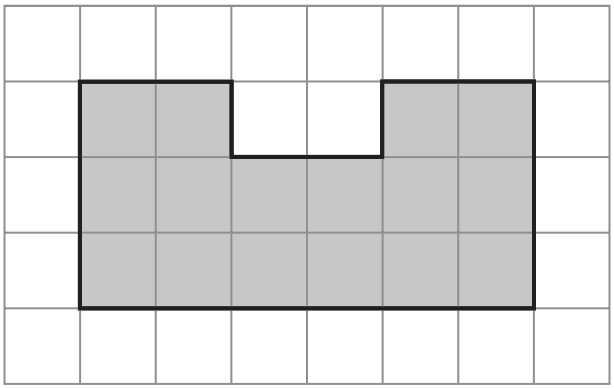
5. The diagram shows a shaded shape on a centimetre grid.



What is the perimeter of the shaded shape?

20 cm	16 cm	22 cm	24 cm	40 cm
A	**B**	**C**	**D**	**E**

---

6. Here are the first five terms of a sequence.

−2	3	8	13	18

The next term of this sequence is

23	–23	25	28	19
A	**B**	**C**	**D**	**E**

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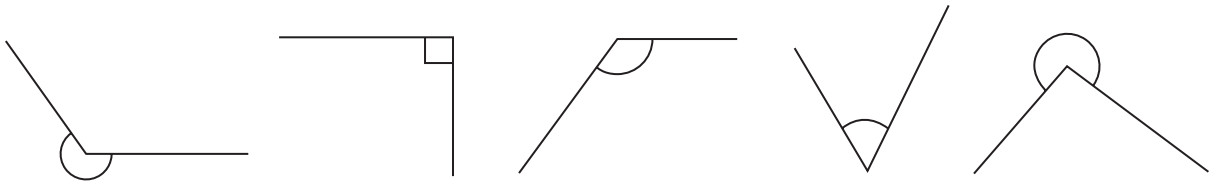
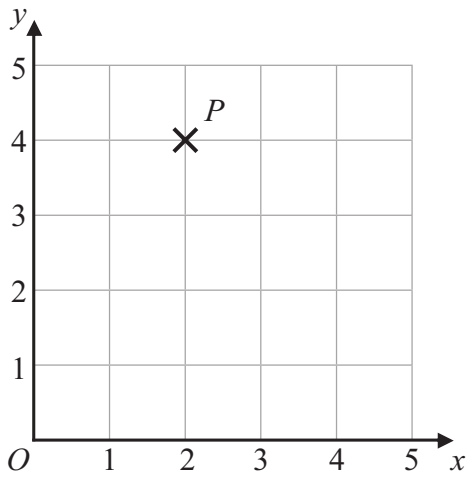
7. One of the marked angles is an obtuse angle.
Which angle?



A	**B**	**C**	**D**	**E**

8.



What are the coordinates of the point P?

(0, 4)	(4, 2)	(2, 0)	(0, 2)	(2, 4)
A	**B**	**C**	**D**	**E**

9. Which shape has diagonals that must cross at right angles?

Rectangle	Parallelogram	Rhombus	Trapezium	Quadrilateral
A	**B**	**C**	**D**	**E**

10. Which is the smallest number?

5	–3	–6	0	1
A	**B**	**C**	**D**	**E**

11. Jane's age is n years.
Duncan is 5 years younger than Jane.

What is Duncan's age?

$5n$	$5 - n$	$n + 5$	5	$n - 5$
A	**B**	**C**	**D**	**E**

12. Here is a rectangle.

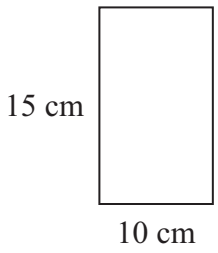


Diagram **NOT** accurately drawn

What is the area of this rectangle?

150 cm^2	50 cm^2	75 cm^2	325 cm^2	25 cm^2
A	**B**	**C**	**D**	**E**

13. Which is the largest number?

0.6	0.604	0.64	0.6044	0.074
A	**B**	**C**	**D**	**E**

14.

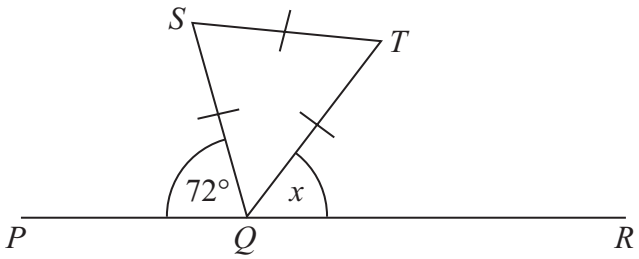


Diagram **NOT** accurately drawn

PQR is a straight line.
QST is an equilateral triangle.
Angle *SQP* = 72°

What is the size of the angle marked *x*?

72°	48°	30°	54°	45°
A	**B**	**C**	**D**	**E**

15. Mr Akbar left home at 08 35 to go to work.
He arrived at work at 09 17

How many minutes did it take Mr Akbar to get to work?

52 minutes	82 minutes	78 minutes	42 minutes	68 minutes
A	**B**	**C**	**D**	**E**

16. $12 + 8 \times 2 - 1 =$

27	20	21	–4	39
A	**B**	**C**	**D**	**E**

17. Here are the first four terms of a sequence.

1 7 13 19

One of these numbers is a term of this sequence.
Which number?

45	47	49	51	53
A	**B**	**C**	**D**	**E**

18. n is an odd number.

One of these expressions **always** represents an even number.
Which expression?

$n + 2$	$2n + 1$	$2n - 1$	$n + 1$	$3n$
A	**B**	**C**	**D**	**E**

19. Here is a right-angled triangle.

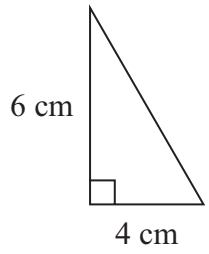


Diagram **NOT** accurately drawn

What is the area of this triangle?

12 cm^2	24 cm^2	5 cm^2	10 cm^2	6 cm^2
A	**B**	**C**	**D**	**E**

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20. $-8-5=$

–13	–3	40	13	3
A	**B**	**C**	**D**	**E**

21.

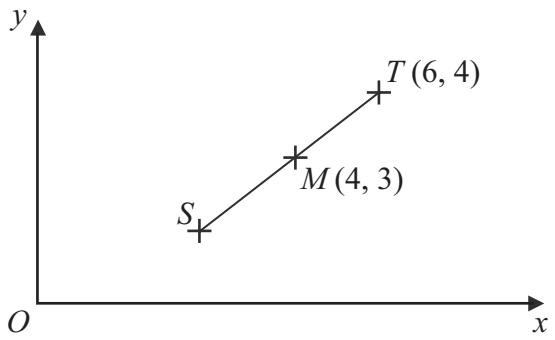

Diagram **NOT** accurately drawn

T is the point (6, 4).
M is the point (4, 3).
M is the midpoint of *ST*.

Which are the coordinates of the point *S* ?

(2, 1)	(2, 2)	(5, $3\frac{1}{2}$)	(3, 2)	(3, 1)
A	**B**	**C**	**D**	**E**

---

22. $\frac{27}{8} =$

$2\frac{7}{8}$	$\frac{8}{27}$	$3\frac{1}{8}$	$2\frac{3}{8}$	$3\frac{3}{8}$
A	**B**	**C**	**D**	**E**

23. The Highest Common Factor (HCF) of 24 and 40 is

2	8	120	4	960
A	**B**	**C**	**D**	**E**

24. $36.8 \times 1.65 = 60.72$

The value of 3.68×165 is

0.6072	60.72	607.2	6072	60720
A	**B**	**C**	**D**	**E**

25. Here are the first five terms of an arithmetic sequence.

−2 3 8 13 18

Which is the expression for the nth term of this sequence?

$n - 2$	$5n - 2$	$n + 5$	$5n - 7$	$5n$
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

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