Paper Reference(s)

5382F/07

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier

Unit 2 Stage 1

Monday 3 March 2008 – Afternoon

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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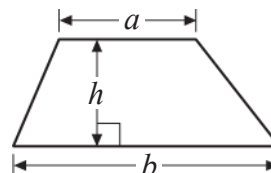
Turn over

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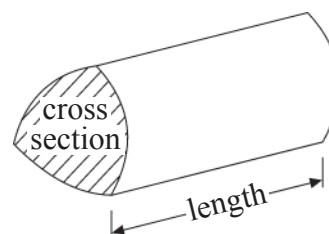
GCSE Mathematics

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 3020 in words?

Thirty thousand and twenty

A

Three thousand and twenty

B

Three thousand and two

C

Three hundred and twenty

D

Three hundred and two

E

2. Which number is a multiple of 6?

8	22	16	10	18
A	**B**	**C**	**D**	**E**

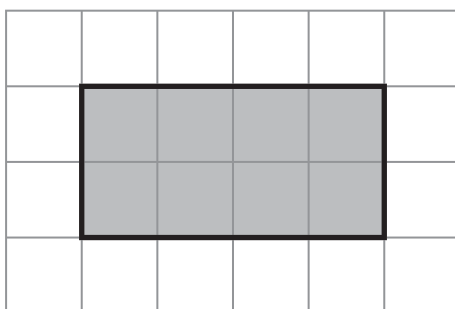**3.** Here is a shaded rectangle on a centimetre grid.

What is the area of the shaded rectangle?

24 cm²	14 cm²	12 cm²	8 cm²	6 cm²
A	**B**	**C**	**D**	**E**

4. In one week 9786 people visited a museum.

The number 9786 rounded to the nearest ten is

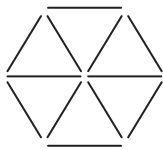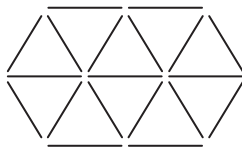| 10000	9700	9790	9780	9800
A	**B**	**C**	**D**	**E**

5. Here is a sequence of patterns made from sticks.

Pattern 1   Pattern 2   Pattern 3

Pattern	1	2	3
Number of sticks	5	12	19

What is the number of sticks needed for Pattern 4?

26	33	24	27	25
A	**B**	**C**	**D**	**E**

6. Which triangle is an isosceles triangle?
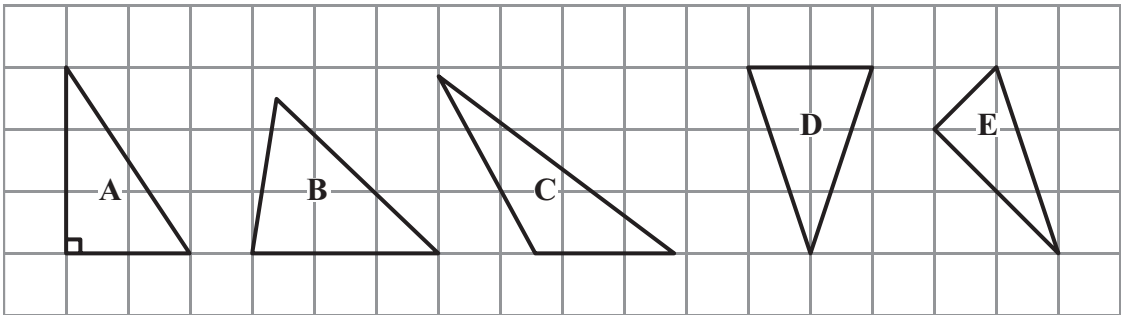
A	**B**	**C**	**D**	**E**

7. Here are the first four numbers in a sequence.

4   9   14   19

The next number in the sequence is

29	24	23	22	20
A	**B**	**C**	**D**	**E**

8. Here is a list of decimal numbers.

$$2.3 \qquad 2.41 \qquad 2.39 \qquad 2.389 \qquad 2.4$$
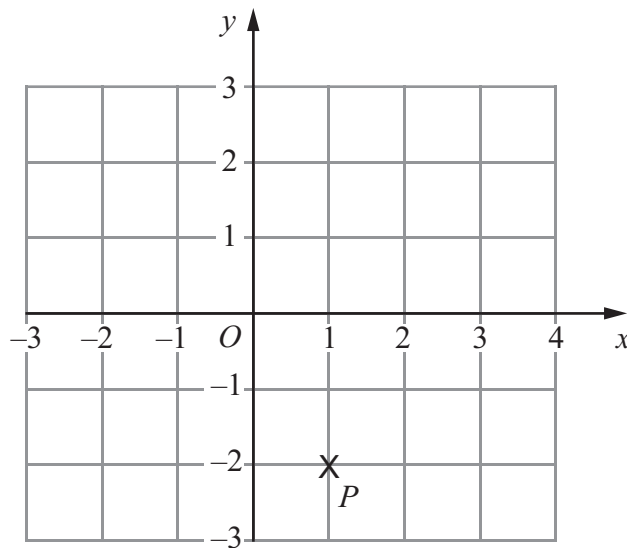
Robert is going to write the numbers in order of size.
He writes down the smallest number.

Which number should he write down next?

2.3	2.41	2.39	2.389	2.4
A	**B**	**C**	**D**	**E**

9.

What are the coordinates of the point *P*?

(1, –2)	(–2, 1)	(2, 1)	(–1, –2)	(1, 2)
A	**B**	**C**	**D**	**E**

10.
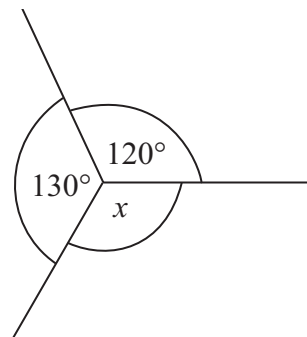
Diagram **NOT**
accurately drawn

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

120°	60°	110°	50°	130°
A	**B**	**C**	**D**	**E**

11. Which number is a prime number?

4	9	15	12	7
A	**B**	**C**	**D**	**E**

12. Which fraction is equal to $\frac{4}{5}$?

$\frac{7}{8}$	$\frac{2}{10}$	$\frac{16}{20}$	$\frac{20}{30}$	$\frac{12}{20}$
A	**B**	**C**	**D**	**E**

13. Here is a rectangle.

3 cm   Diagram **NOT** accurately drawn

4 cm
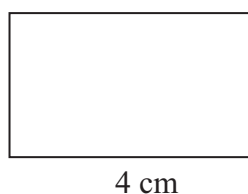
The perimeter of the rectangle is

12 cm	49 cm	6 cm	14 cm	7 cm
A	**B**	**C**	**D**	**E**

14. Here are the first six terms in a sequence.

4   7   11   14   18   21

What is the 9th term of this sequence?

32	29	31	30	28
A	**B**	**C**	**D**	**E**

15. A train leaves London at 16 50
It arrives in Manchester at 19 15

How long does the journey take?

2 hours 25 minutes	1 hour 35 minutes	2 hours 35 minutes
A	**B**	**C**

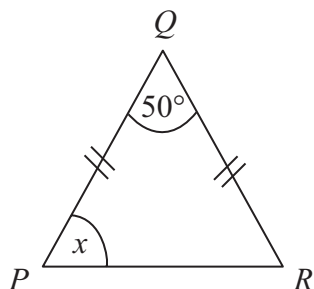| 3 hours 25 minutes	3 hours 35 minutes
D	**E**

16.

Diagram **NOT** accurately drawn

PQR is an isosceles triangle.
QP = QR
Angle *Q* = 50°

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

50°	25°	130°	65°	60°
A	**B**	**C**	**D**	**E**

17. Which fraction is the largest?

$\dfrac{11}{15}$	$\dfrac{4}{5}$	$\dfrac{9}{10}$	$\dfrac{13}{20}$	$\dfrac{53}{60}$
A	**B**	**C**	**D**	**E**

18. What is −7 added to −3?

−4	+4	+10	+21	−10
A	**B**	**C**	**D**	**E**

19. A shop sells CDs for x pounds each.
Darren buys 8 of these CDs.

What is the expression, in terms of x, for the total cost of 8 CDs?

$$8+x \qquad x \qquad \frac{8}{x} \qquad 8x \qquad \frac{x}{8}$$

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

20.
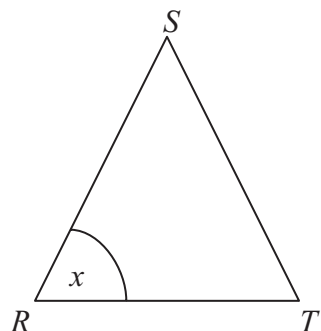
Diagram **NOT** accurately drawn

RST is an equilateral triangle.

What is the size of the angle marked x?

$$50° \qquad 45° \qquad 40° \qquad 30° \qquad 60°$$

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

21. 487 is divided by 23

What is the remainder?

$$16 \qquad 4 \qquad 3 \qquad 6 \qquad 0$$

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

22. The Highest Common Factor (HCF) of 16 and 36 is

$$4 \qquad 144 \qquad 576 \qquad 8 \qquad 72$$

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

23. The diagram shows a rectangular floor.
The length of the floor is 3 m.
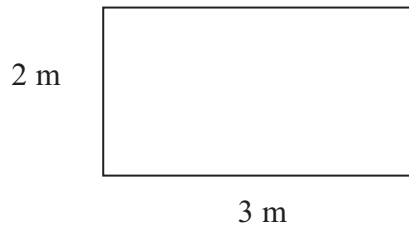The width of the floor is 2 m.

2 m ▢ Diagram **NOT**
accurately drawn

3 m

Jane is going to cover the floor with tiles.
Each tile is a square of side 50 cm.
Jane wants to cover the floor completely.
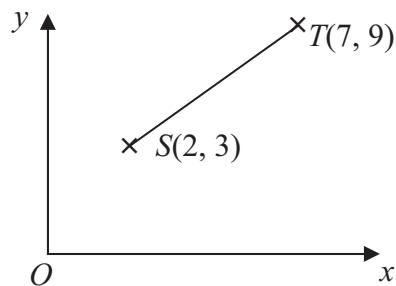
How many tiles does she need?

24	12	10	20	6
A	**B**	**C**	**D**	**E**

24.

Diagram **NOT**
accurately drawn

y

×*T*(7, 9)

×*S*(2, 3)

O   *x*

Which are the coordinates of the midpoint of the line *ST*?

(3½, 4½)	(4½, 6)	(5, 6)	(6, 2½)	(6, 4½)
A	**B**	**C**	**D**	**E**

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

2   5   8   11   14

What is the expression, in terms of n, for the nth term of the sequence?

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

TOTAL FOR PAPER: 25 MARKS

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