

Surname	Initial(s)
Signature	

Paper Reference(s)

5382F/07

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Thursday 13 November 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 an 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 8 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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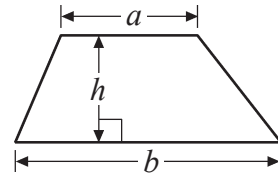
Turn over

GCSE Mathematics

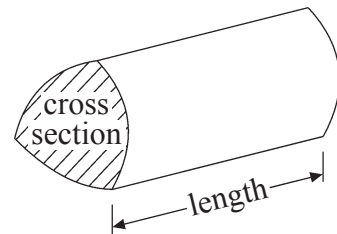
Formulae: Foundation Tier

**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



Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. What is 3762 when rounded to the nearest 100?

- | | | | | |
|----------|----------|----------|----------|----------|
| 37 | 3700 | 38 | 3800 | 4000 |
| A | B | C | D | E |
-

2. Ted buys a packet of sweets for £2.95 and a can of cola for 45p.

What is the total cost?

- | | | | | |
|----------|----------|----------|----------|----------|
| £2.40 | £3.35 | £3.40 | £2.50 | £3.30 |
| A | B | C | D | E |
-

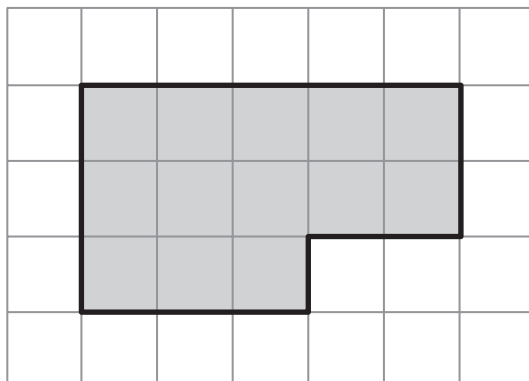
3.



What type of angle is marked x ?

- | | | | | |
|-------------|--------------|-------------|--------------|-----------|
| acute angle | obtuse angle | right angle | reflex angle | x angle |
| A | B | C | D | E |
-

4. Here is a shaded shape on a grid of centimetre squares.



What is the area of the shaded shape?

- | | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| 12 cm ² | 13 cm ² | 14 cm ² | 15 cm ² | 16 cm ² |
| A | B | C | D | E |
-

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

3 7 11 15

The next number in the sequence is

- | | | | | |
|----------|----------|----------|----------|----------|
| 20 | 23 | 19 | 17 | 18 |
| A | B | C | D | E |
-

6. The first odd number is 1

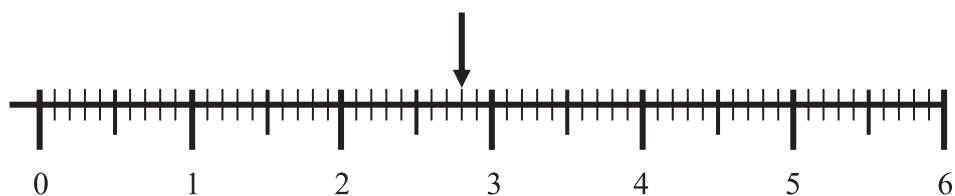
What is the seventh odd number?

- | | | | | |
|----------|----------|----------|----------|----------|
| 7 | 11 | 13 | 15 | 14 |
| A | B | C | D | E |
-

7. What is the value of the 6 in the number 2564?

- | | | | | |
|----------|----------|----------|----------|----------------|
| 60 | 6 | 600 | 6000 | $\frac{6}{10}$ |
| A | B | C | D | E |
-

8. What is the value of the number shown by the arrow?

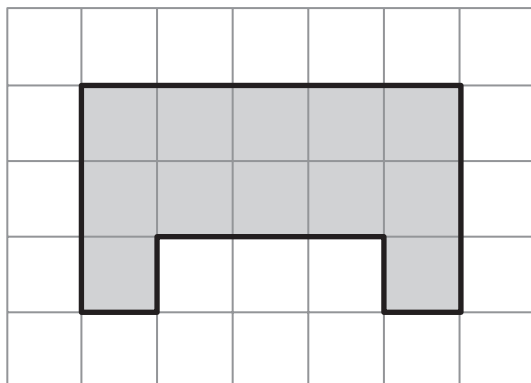


- | | | | | |
|----------|----------|----------|----------|----------|
| 28 | 2.9 | 3.2 | 2.7 | 2.8 |
| A | B | C | D | E |
-

9. Which list of numbers is in order of size?

- | | | | | | |
|----------|----|----|----|----|---|
| A | 1 | 2 | -3 | -4 | 5 |
| B | 5 | -4 | -3 | 2 | 1 |
| C | -3 | -4 | 1 | 2 | 5 |
| D | -4 | -3 | 1 | 2 | 5 |
| E | -4 | -3 | 5 | 2 | 1 |
-

10. Here is a shaded shape on a grid of centimetre squares.



What is the perimeter of the shaded shape?

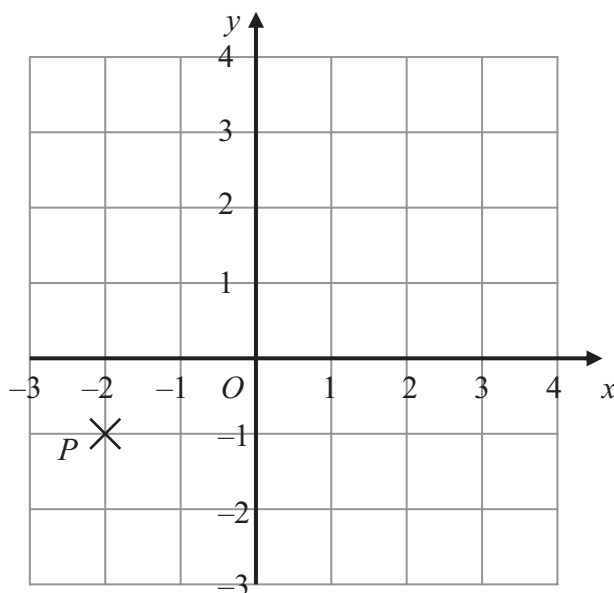
- | | | | | |
|----------|----------|----------|----------|----------|
| 18 cm | 17 cm | 19 cm | 16 cm | 12 cm |
| A | B | C | D | E |

11. Sweets cost 5 pence each.
Shamonti buys x sweets.

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

- | | | | | |
|----------|---------------|----------|---------------|----------|
| x | $\frac{x}{5}$ | $x + 5$ | $\frac{5}{x}$ | $5x$ |
| A | B | C | D | E |

12.



What are the coordinates of the point P ?

- | | | | | |
|-----------|-----------|------------|------------|----------|
| $(-2, 1)$ | $(2, -1)$ | $(-1, -2)$ | $(-2, -1)$ | $(2, 1)$ |
| A | B | C | D | E |

13. 159 is divided by 13

What is the remainder?

- | | | | | |
|----------|----------|----------|----------|----------|
| 12 | 11 | 3 | 1 | 29 |
| A | B | C | D | E |
-

14. 2 4 5 6 9 15

Which two numbers in the list are prime numbers?

- | | | | | |
|----------|----------|----------|----------|----------|
| 4 and 9 | 5 and 6 | 9 and 15 | 5 and 9 | 2 and 5 |
| A | B | C | D | E |
-

15. Here is an isosceles triangle.

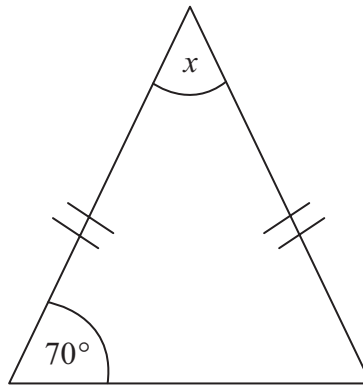


Diagram **NOT** accurately drawn

What is the size of the angle marked x ?

- | | | | | |
|------------|-------------|-------------|------------|------------|
| 70° | 110° | 140° | 40° | 55° |
| A | B | C | D | E |
-

16. What is the area of this shaded shape?

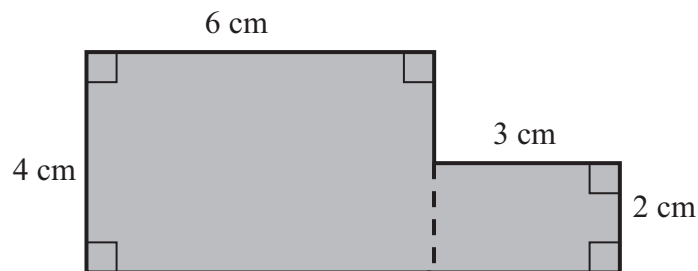


Diagram **NOT** accurately drawn

- | | | | | |
|-------------------|-------------------|--------------------|-------------------|-------------------|
| 30 cm^2 | 26 cm^2 | 144 cm^2 | 24 cm^2 | 15 cm^2 |
| A | B | C | D | E |
-

17. Pens cost x pence each.
Pencils cost y pence each.

Rachael buys 2 pens and 5 pencils.

What is the expression, in terms of x and y , for the total cost?

- | | | | | |
|-----------|----------|-----------|----------|------------|
| $2x + 5y$ | $x + y$ | $5x + 2y$ | $7xy$ | $7(x + y)$ |
| A | B | C | D | E |
-

18. $325 \times 23 =$

- | | | | | |
|----------|----------|----------|----------|----------|
| 7475 | 1625 | 675 | 6500 | 7575 |
| A | B | C | D | E |
-

19. Jade measured the length of a line as 54 mm.

What is this length in centimetres?

- | | | | | |
|----------|----------|----------|----------|----------|
| 54 cm | 540 cm | 5400 cm | 5.4 cm | 0.54 cm |
| A | B | C | D | E |
-

20. The n th term of a sequence is given by $3n - 2$

What is the 10th term of this sequence?

- | | | | | |
|----------|----------|----------|----------|----------|
| 32 | 28 | 11 | 308 | 298 |
| A | B | C | D | E |
-

21. What is $\frac{1}{8}$ when written as a decimal?

- | | | | | |
|----------|----------|----------|----------|----------|
| 0.18 | 0.1 | 0.12 | 1.8 | 0.125 |
| A | B | C | D | E |
-

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

2 9 16 23 30

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

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

23. A cuboid is drawn on a 3-D grid.

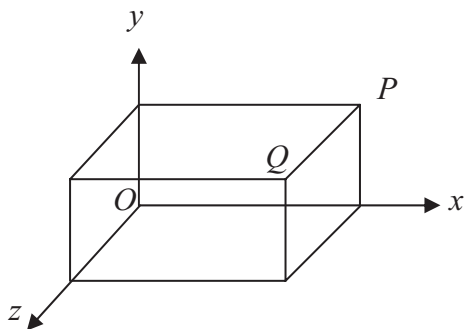


Diagram **NOT** accurately drawn

The point Q has coordinates $(3, 1, 2)$.

The coordinates of the point P are

- | | | | | |
|-------------|-------------|-------------|-------------|-------------|
| $(3, 1, 0)$ | $(3, 0, 2)$ | $(0, 1, 2)$ | $(3, 2, 0)$ | $(2, 1, 3)$ |
| A | B | C | D | E |

24. R is the point with coordinates $(4, 1)$
 S is the point with coordinates $(6, 5)$

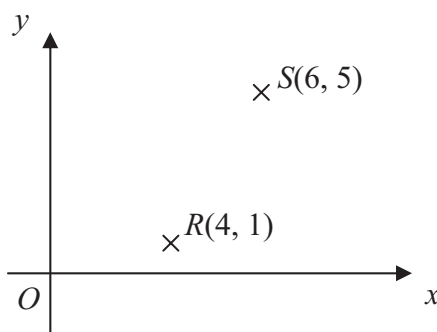


Diagram **NOT** accurately drawn

Which are the coordinates of the midpoint of the line RS ?

- | | | | | |
|-----------|-----------|----------|----------|----------|
| $(1, -3)$ | $(10, 6)$ | $(2, 4)$ | $(5, 3)$ | $(1, 2)$ |
| A | B | C | D | E |

25. What is the Lowest Common Multiple (LCM) of 20 and 35?

- | | | | | |
|----------|----------|----------|----------|----------|
| 700 | 70 | 350 | 140 | 5 |
| A | B | C | D | E |

TOTAL FOR PAPER: 25 MARKS

END