

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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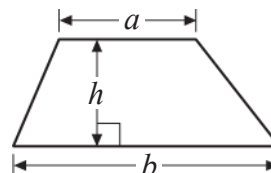
*Turn over*

## GCSE Mathematics

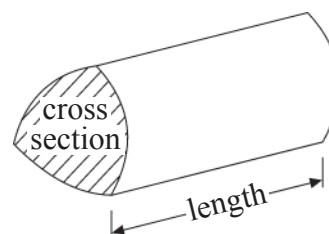
### Formulae: Foundation Tier

**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
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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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
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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- 3.

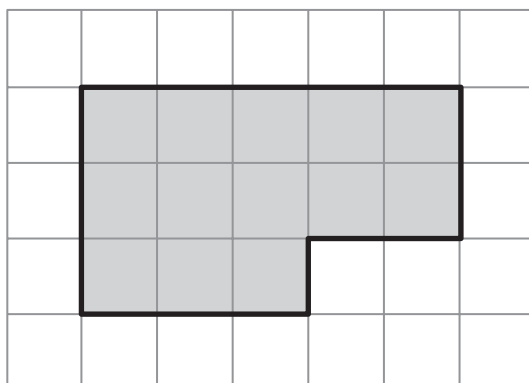


What type of angle is marked  $x$ ?

acute angle	obtuse angle	right angle	reflex angle	$x$ angle
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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



What is the area of the shaded shape?

12 cm <sup>2</sup>	13 cm <sup>2</sup>	14 cm <sup>2</sup>	15 cm <sup>2</sup>	16 cm <sup>2</sup>
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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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
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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6. The first odd number is 1

What is the seventh odd number?

7	11	13	15	14
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

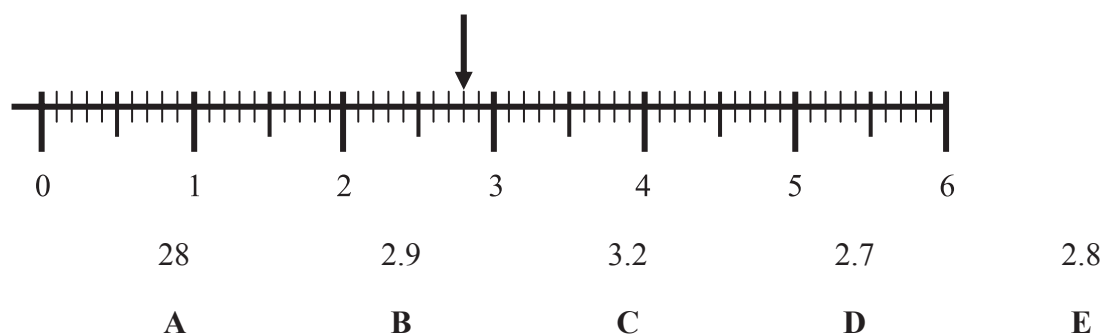
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7. What is the value of the 6 in the number 2564?

60	6	600	6000	$\frac{6}{10}$
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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

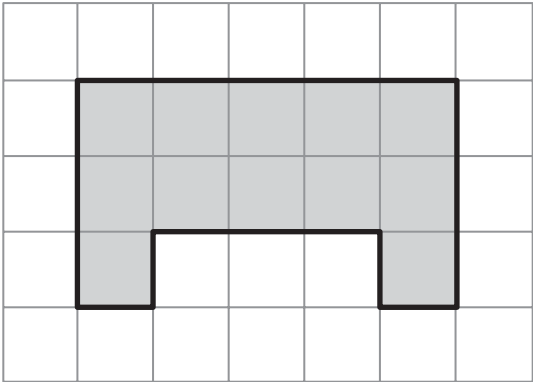


9. Which list of numbers is in order of size?

<b>A</b>	1	2	-3	-4	5
<b>B</b>	5	-4	-3	2	1
<b>C</b>	-3	-4	1	2	5
<b>D</b>	-4	-3	1	2	5
<b>E</b>	-4	-3	5	2	1

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



What is the perimeter of the shaded shape?

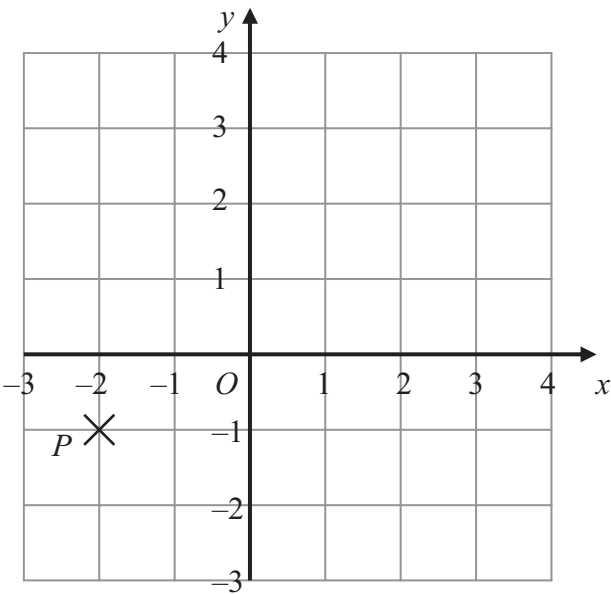
- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 18 cm    | 17 cm    | 19 cm    | 16 cm    | 12 cm    |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

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

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

- |          |               |          |               |          |
|----------|---------------|----------|---------------|----------|
| $x$      | $\frac{x}{5}$ | $x + 5$  | $\frac{5}{x}$ | $5x$     |
| <b>A</b> | <b>B</b>      | <b>C</b> | <b>D</b>      | <b>E</b> |
- 

12.



What are the coordinates of the point  $P$ ?

- |           |           |            |            |          |
|-----------|-----------|------------|------------|----------|
| $(-2, 1)$ | $(2, -1)$ | $(-1, -2)$ | $(-2, -1)$ | $(2, 1)$ |
| <b>A</b>  | <b>B</b>  | <b>C</b>   | <b>D</b>   | <b>E</b> |
-

13. 159 is divided by 13

What is the remainder?

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 12       | 11       | 3        | 1        | 29       |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

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  |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

15. Here is an isosceles triangle.

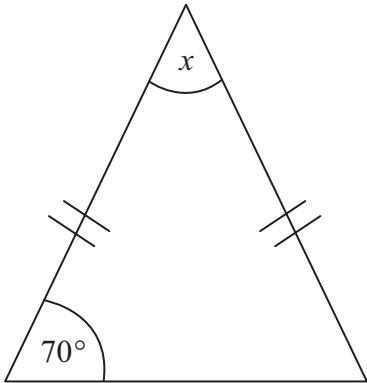


Diagram **NOT**  
accurately drawn

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

- |            |             |             |            |            |
|------------|-------------|-------------|------------|------------|
| $70^\circ$ | $110^\circ$ | $140^\circ$ | $40^\circ$ | $55^\circ$ |
| <b>A</b>   | <b>B</b>    | <b>C</b>    | <b>D</b>   | <b>E</b>   |
- 

16. What is the area of this shaded shape?

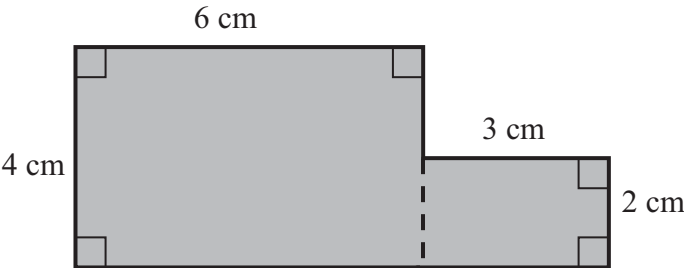


Diagram **NOT**  
accurately drawn

- |                  |                  |                   |                  |                  |
|------------------|------------------|-------------------|------------------|------------------|
| $30\text{ cm}^2$ | $26\text{ cm}^2$ | $144\text{ cm}^2$ | $24\text{ cm}^2$ | $15\text{ cm}^2$ |
| <b>A</b>         | <b>B</b>         | <b>C</b>          | <b>D</b>         | <b>E</b>         |
-

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?

$2x + 5y$	$x + y$	$5x + 2y$	$7xy$	$7(x + y)$
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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18.  $325 \times 23 =$

7475	1625	675	6500	7575
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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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
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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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
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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

0.18	0.1	0.12	1.8	0.125
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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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?

$7n + 2$	$7n - 5$	$n + 7$	$7n$	$n - 5$
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

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

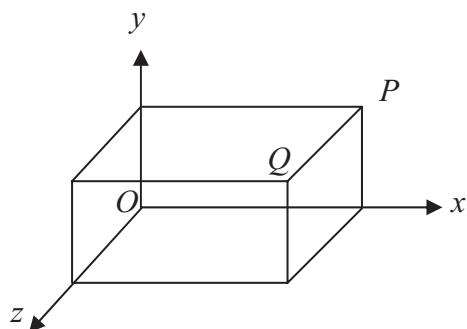


Diagram **NOT**  
accurately drawn

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  $(6, 5)$

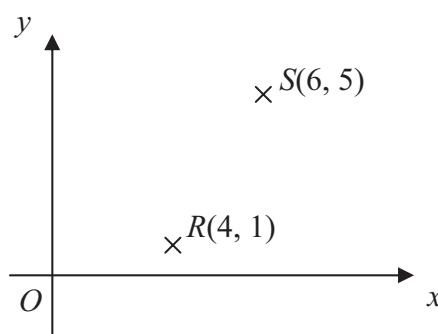


Diagram **NOT**  
accurately drawn

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**