

Surname	Initial(s)
Signature	

Paper Reference(s)

**5382F/07**

**Edexcel GCSE**

**Mathematics (Modular) – 2381**

**Paper 7 (Non-Calculator)**

**Foundation Tier**



**Unit 2 Stage 1**

**Tuesday 1 March 2011 – 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.

Printer's Log. No.

**P39190A**



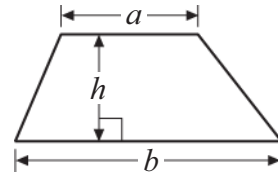
*Turn over*

## GCSE Mathematics 2381

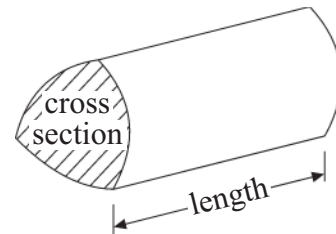
Formulae: Foundation Tier

**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



Answer ALL TWENTY FIVE questions using the answer sheet.

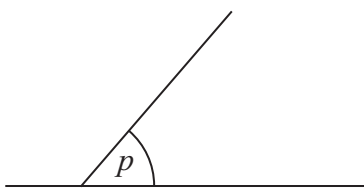
You must NOT use a calculator.

1. What is 5391 when rounded to the nearest hundred?

54	5300	5000	5400	400
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

---

- 2.



What type of angle is marked  $p$ ?

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

---

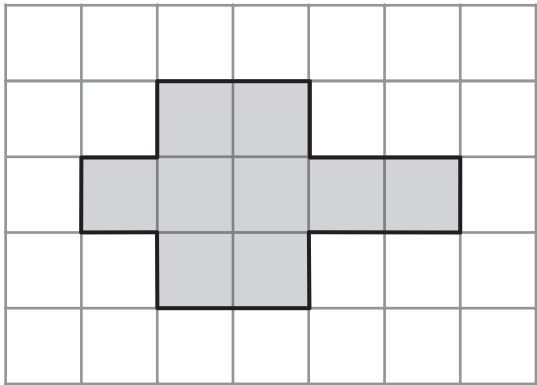
3. Zack buys a magazine for £2.95  
He also buys a coffee for £1.75

What is the total cost?

£3.60	£4.70	£4.60	£1.20	£3.70
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

---

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



The perimeter of the shaded shape is

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 16 cm    | 15 cm    | 24 cm    | 9 cm     | 20 cm    |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

5. The first even number is 2

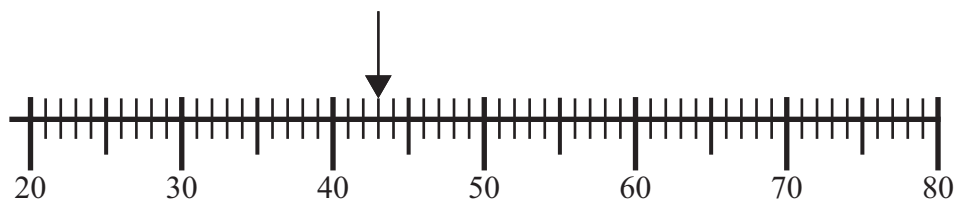
What is the seventh even number?

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 7        | 16       | 13       | 14       | 12       |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

6. The value of the 6 in the number 3671 is

- |          |          |          |          |                 |
|----------|----------|----------|----------|-----------------|
| 60       | 6        | 600      | 6000     | $\frac{6}{100}$ |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b>        |
-

7. What number is shown by the arrow?



40.3

**A**

43

**B**

46

**C**

45

**D**

42

**E**

---

8. Only one of these statements is correct.

Which one?

$$7 \times 8 = 54$$

**A**

$$6 \times 9 = 56$$

**B**

$$7 \times 8 = 56$$

**C**

$$8 \times 9 = 56$$

**D**

$$8 \times 9 = 74$$

**E**

---

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

3

8

13

18

The next number in the sequence is

21

**A**

22

**B**

23

**C**

24

**D**

28

**E**

---

10. One list of numbers is in order of size.

Which one?

<b>A</b>	0	-1	2	-4	5
<b>B</b>	5	-4	2	-1	0
<b>C</b>	-1	-4	0	2	5
<b>D</b>	0	-1	-4	2	5
<b>E</b>	-4	-1	0	2	5

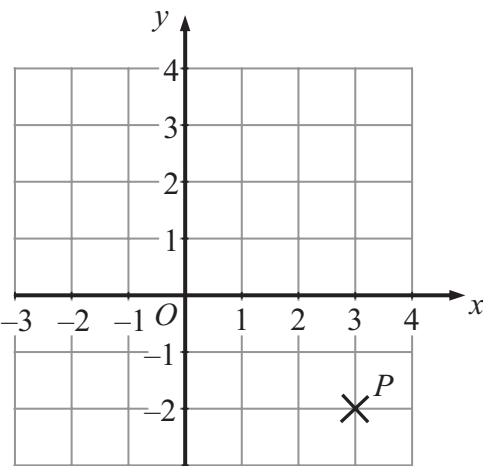
11. Ed has  $x$  sweets.

He gives 5 of the sweets to his friend Sylvie.

What is the expression for the number of sweets Ed has now?

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

12.



What are the coordinates of the point  $P$ ?

$(-2, -3)$	$(-2, 3)$	$(-3, -2)$	$(3, 2)$	$(3, -2)$
<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>

13. What is the decimal 0.23 when written as a fraction?

$$2\frac{3}{10}$$

**A**

$$\frac{23}{10}$$

**B**

$$\frac{23}{100}$$

**C**

$$\frac{23}{1000}$$

**D**

$$\frac{2}{3}$$

**E**

---

14. Here is a list of numbers.

2

3

5

6

9

12

Which two of these numbers are **not** factors of 24?

2 and 9

**A**

5 and 6

**B**

9 and 12

**C**

2 and 5

**D**

5 and 9

**E**

---

15. Here is an isosceles triangle.

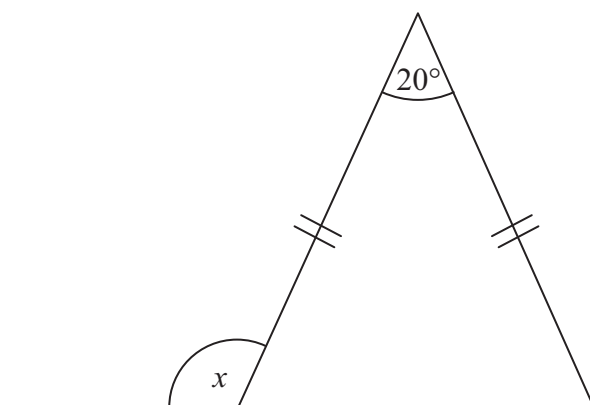


Diagram **NOT**  
accurately drawn

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

100°

**A**

160°

**B**

70°

**C**

20°

**D**

80°

**E**

---

16. What is 58.75 written correct to **one** significant figure?

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 6        | 58.8     | 58.7     | 60       | 50       |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

17. Jade measured the width of her bedroom as 254 cm.

What is 254 cm in metres?

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 2.54 m   | 25.4 m   | 2540 m   | 0.254 m  | 25 400 m |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

18. The  $n$ th term of a sequence is given by  $4n + 1$

The 10th term of this sequence is

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 39       | 15       | 41       | 411      | 44       |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
- 

19. The cost of a magazine is £2.45

Josie buys a copy of the magazine each week for 52 weeks.

What is the total cost?

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| £17.15   | £104.45  | £127.40  | £108.68  | £137.40  |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |
-



20.

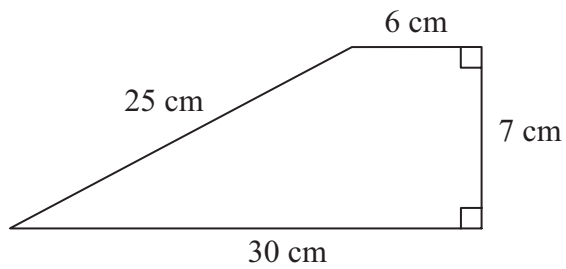


Diagram **NOT**  
accurately drawn

The area of this shape is

68 cm<sup>2</sup>

**A**

450 cm<sup>2</sup>

**B**

105 cm<sup>2</sup>

**C**

126 cm<sup>2</sup>

**D**

210 cm<sup>2</sup>

**E**

---

21. There are 6 pens in a box of pens.  
There are 12 pencils in a box of pencils.

Ray buys  $x$  boxes of pens and  $y$  boxes of pencils.

An expression for the total number of pens and pencils that Ray buys is

$12x + 6y$

**A**

$6x + 12y$

**B**

$x + y$

**C**

$18xy$

**D**

$18(x + y)$

**E**

---

22.

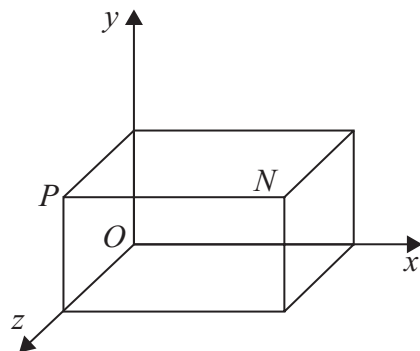


Diagram **NOT**  
accurately drawn

The point  $N$  has coordinates  $(4, 2, 3)$ .

The coordinates of the point  $P$  are

$(4, 2, 0)$

**A**

$(4, 0, 3)$

**B**

$(0, 2, 3)$

**C**

$(2, 2, 3)$

**D**

$(0, 0, 3)$

**E**

---

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

7      11      15      19      23

The  $n$ th term of this sequence is

$4n + 7$

**A**

$4n + 3$

**B**

$n + 4$

**C**

$4n$

**D**

$n - 4$

**E**

---

24.

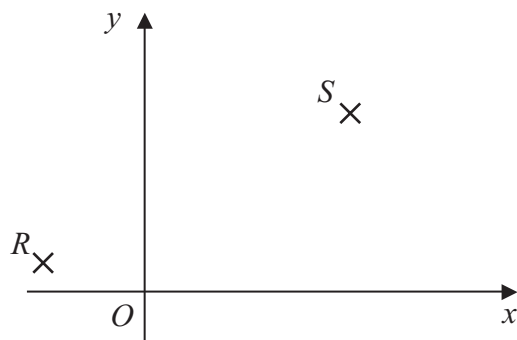


Diagram **NOT**  
accurately drawn

$R$  is the point  $(-3, 1)$ .  
 $S$  is the point  $(7, 5)$ .

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

- |          |           |          |          |           |
|----------|-----------|----------|----------|-----------|
| $(4, 6)$ | $(10, 4)$ | $(2, 3)$ | $(4, 4)$ | $(-4, 3)$ |
| <b>A</b> | <b>B</b>  | <b>C</b> | <b>D</b> | <b>E</b>  |

---

25. The Lowest Common Multiple (LCM) of 24 and 36 is

- |          |          |          |          |          |
|----------|----------|----------|----------|----------|
| 6        | 96       | 144      | 12       | 72       |
| <b>A</b> | <b>B</b> | <b>C</b> | <b>D</b> | <b>E</b> |

---

**TOTAL FOR PAPER: 25 MARKS**

**END**

**BLANK PAGE**