

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.

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P 3 9 1 9 0 A

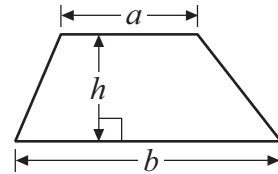
Turn over

GCSE Mathematics 2381

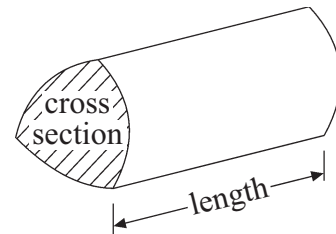
Formulae: Foundation Tier

**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



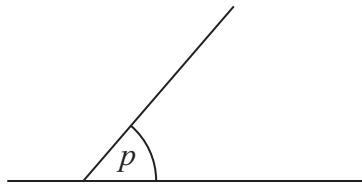
Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

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

- | | | | | |
|----------|----------|----------|----------|----------|
| 54 | 5300 | 5000 | 5400 | 400 |
| A | B | C | D | E |
-

2.



What type of angle is marked p ?

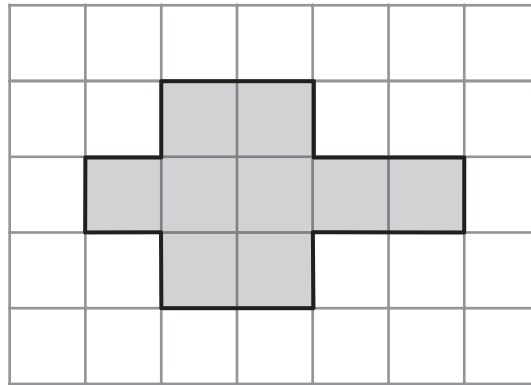
- | | | | | |
|----------------|-----------------|----------------|-----------------|--------------|
| acute
angle | obtuse
angle | right
angle | reflex
angle | p
angle |
| A | B | C | D | E |
-

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 |
| A | B | C | D | E |
-

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



The perimeter of the shaded shape is

16 cm

A

15 cm

B

24 cm

C

9 cm

D

20 cm

E

5. The first even number is 2

What is the seventh even number?

7

A

16

B

13

C

14

D

12

E

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

60

A

6

B

600

C

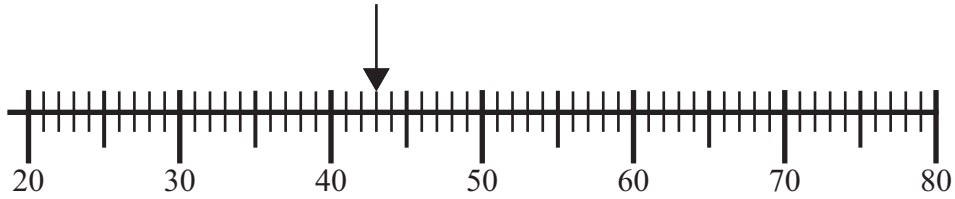
6000

D

$\frac{6}{100}$

E

7. What number is shown by the arrow?



40.3

43

46

45

42

A

B

C

D

E

8. Only one of these statements is correct.

Which one?

$7 \times 8 = 54$

$6 \times 9 = 56$

$7 \times 8 = 56$

$8 \times 9 = 56$

$8 \times 9 = 74$

A

B

C

D

E

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

3

8

13

18

The next number in the sequence is

21

22

23

24

28

A

B

C

D

E

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

Which one?

A	0	-1	2	-4	5
B	5	-4	2	-1	0
C	-1	-4	0	2	5
D	0	-1	-4	2	5
E	-4	-1	0	2	5

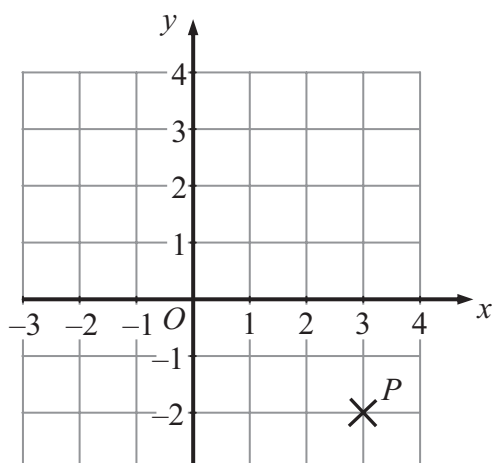
11. Ed has x sweets.

He gives 5 of the sweets to his friend Sylvie.

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

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

12.



What are the coordinates of the point P ?

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

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.

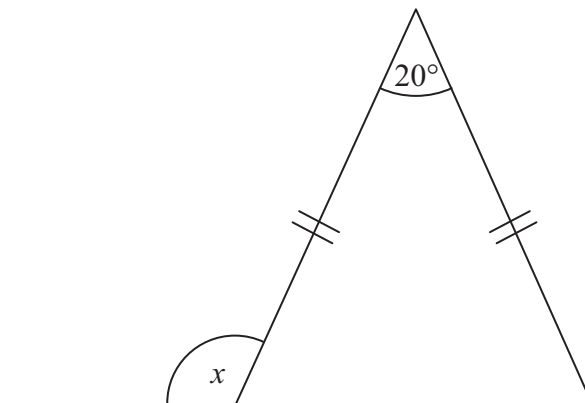


Diagram **NOT**
accurately drawn

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 |
| A | B | C | D | E |
-

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 |
| A | B | C | D | E |
-

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 |
| A | B | C | D | E |
-

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 |
| A | B | C | D | E |
-

20.

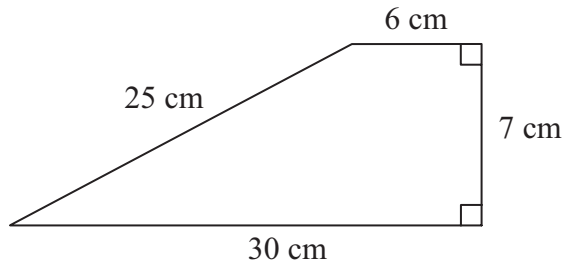


Diagram **NOT**
accurately drawn

The area of this shape is

68 cm²

A

450 cm²

B

105 cm²

C

126 cm²

D

210 cm²

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.

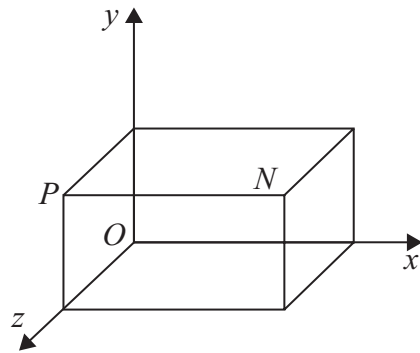


Diagram **NOT**
accurately drawn

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.

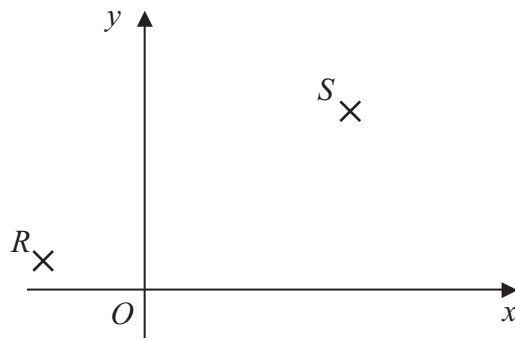


Diagram **NOT**
accurately drawn

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

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

$(4, 6)$

A

$(10, 4)$

B

$(2, 3)$

C

$(4, 4)$

D

$(-4, 3)$

E

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

6

A

96

B

144

C

12

D

72

E

TOTAL FOR PAPER: 25 MARKS

END

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