

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 12 June 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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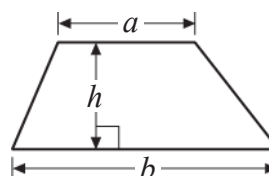
Turn over

GCSE Mathematics

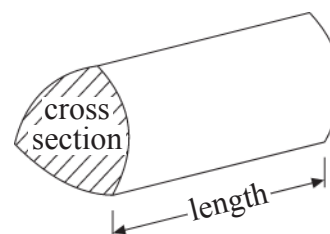
Formulae: Foundation Tier

**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 the value of the 7 in the number 32 715?

7000

A

70 000

B

700

C

7

D

70

E

2. Here is part of a bus timetable.

Abbots Way	10 15	10 45	11 20
Bexley Hill	10 19	10 49	11 23
Chethams	10 26	10 56	11 30
Dove Holes	10 42	11 10	11 45

A bus leaves Abbots Way at 10 45

At what time should the bus arrive at Chethams?

11 10

A

10 56

B

10 49

C

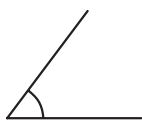
10 26

D

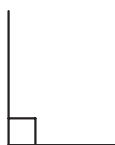
11 30

E

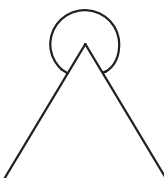
3. Here are five angles.
Which marked angle is an acute angle?



A



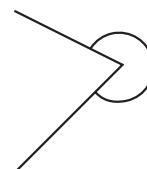
B



C



D



E

4. 13 557 people watched a football match.

What is the number 13 557 when rounded to the nearest hundred?

13 600

A

14 000

B

13 500

C

13 560

D

13 000

E

5. This is a sequence of patterns made from dots.



Pattern 1

Pattern 2

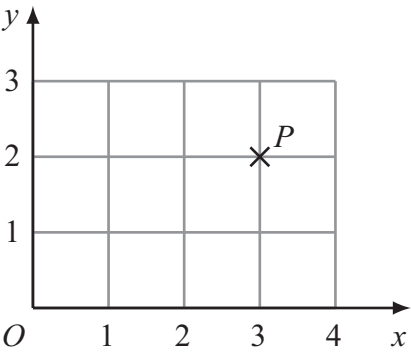
Pattern 3

Pattern	1	2	3
Number of dots	5	9	13

How many dots are there in Pattern 4?

- 19
- A**
- 21
- B**
- 17
- C**
- 14
- D**
- 16
- E**

6.



What are the coordinates of the point P ?

- (3, 0)
- A**
- (2, 0)
- B**
- (0, 2)
- C**
- (3, 2)
- D**
- (2, 3)
- E**

7. Look at the number line below.



What value is shown by the arrow?

- 2.2
- A**
- 2.25
- B**
- 2.24
- C**
- 2.21
- D**
- 2.22
- E**

8. Here is a list of temperatures.

3°C 8°C 1°C -7°C -4°C

Bob is going to write these temperatures in order.
He writes down the lowest temperature.

Which temperature should he write down next?

3°C 8°C 1°C -7°C -4°C
A **B** **C** **D** **E**

9.

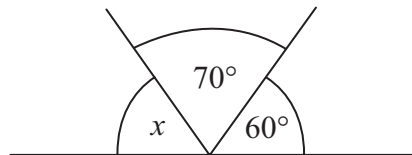


Diagram **NOT**
accurately drawn

What is the size of the angle marked x ?

30° 70° 130° 50° 60°
A **B** **C** **D** **E**

10. Here are the first five terms in a sequence.

6 10 14 18 22

What is the 9th term of this sequence?

30 26 9 34 38
A **B** **C** **D** **E**

11. $13 - 3 \times 4 + 2 =$

42 60 -5 3 -1
A **B** **C** **D** **E**

12. Here is a rectangle.

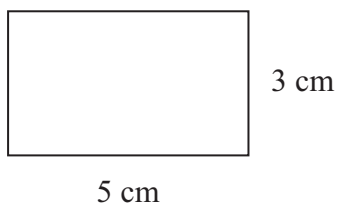


Diagram **NOT**
accurately drawn

The area of the rectangle is

$7\frac{1}{2} \text{ cm}^2$

A

4 cm^2

B

16 cm^2

C

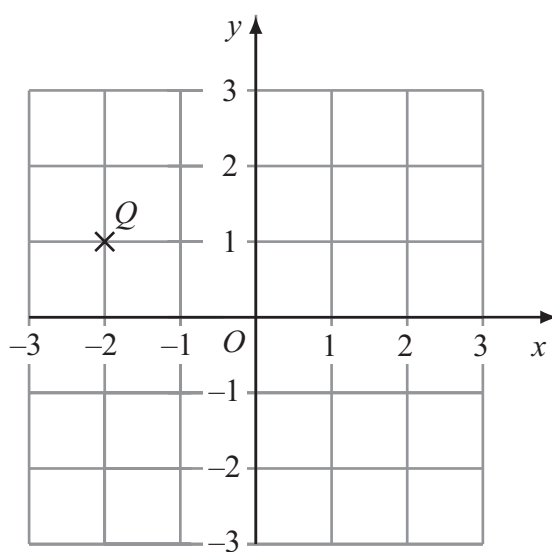
15 cm^2

D

8 cm^2

E

13.



What are the coordinates of the point *Q*?

$(1, -2)$

A

$(-2, 1)$

B

$(-2, -1)$

C

$(2, 1)$

D

$(-2, 0)$

E

14. What is the number 0.357 when written as a fraction?

$3\frac{57}{100}$

A

$\frac{357}{10}$

B

$\frac{357}{100}$

C

$\frac{357}{1000}$

D

$\frac{357}{10000}$

E

15. What is -5 added to $+3$?

-8

A

-2

B

-15

C

$+8$

D

$+2$

E

16.

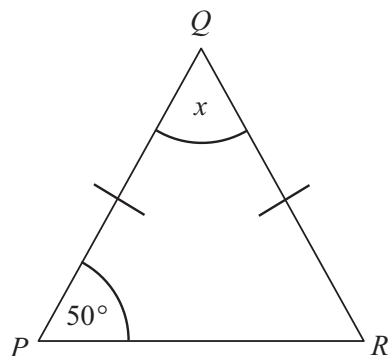


Diagram **NOT**
accurately drawn

PQR is an isosceles triangle.

$QP = QR$

Angle $P = 50^\circ$

What is the size of the angle marked x ?

70°

A

60°

B

40°

C

50°

D

80°

E

17. Sofia has y wrist-bands.

She gives 5 of these wrist-bands to her friend.

What is the expression, in terms of y , for the number of wrist-bands Sofia has now?

$5 - y$

A

$5y$

B

$y - 5$

C

$y + 5$

D

$\frac{y}{5}$

E

18. What is 372.42 correct to one significant figure?

372.4

A

300

B

372

C

370

D

400

E

19.

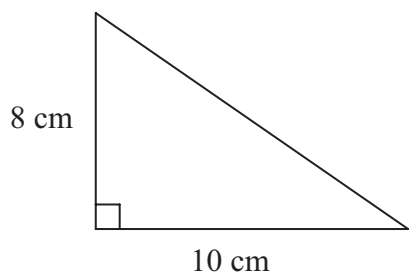


Diagram **NOT**
accurately drawn

The area of this triangle is

9 cm^2

A

20 cm^2

B

40 cm^2

C

18 cm^2

D

80 cm^2

E

20.

CALCULATORS	
Basic	£3
Scientific	£5

Julie spends £25 on scientific calculators.
In total she buys 12 calculators for £46

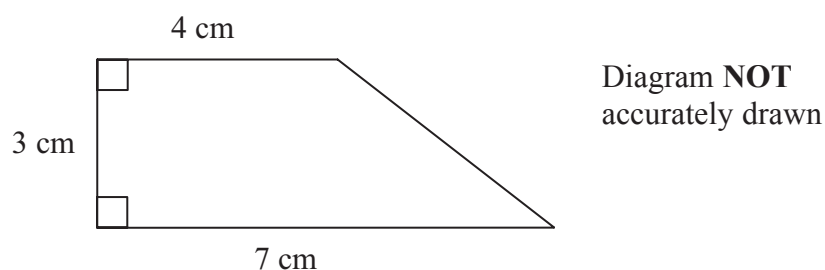
How many basic calculators does she buy?

- | | | | | |
|----------|----------|----------|----------|----------|
| 8 | 5 | 6 | 7 | 4 |
| A | B | C | D | E |

21. A train ticket to the city centre costs £2.85
A teacher buys 26 of these tickets for a school group.
What is the total cost of the 26 tickets?

- | | | | | |
|----------|----------|----------|----------|----------|
| £74.10 | £22.80 | £64.10 | £51.40 | £71.25 |
| A | B | C | D | E |

22.



The area of this shape is

- | | | | | |
|-------------------|---------------------|-------------------|---------------------|-------------------|
| 14 cm^2 | 18.5 cm^2 | 21 cm^2 | 16.5 cm^2 | 84 cm^2 |
| A | B | C | D | E |

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

9 13 17 21 25

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

- | | | | | |
|----------|----------|----------|----------|----------|
| $4n + 1$ | $4n$ | $4n + 5$ | $n + 4$ | $n - 4$ |
| A | B | C | D | E |

24. The Lowest Common Multiple (LCM) of 8 and 12 is

- | | | | | |
|----------|----------|----------|----------|----------|
| 4 | 96 | 12 | 24 | 2 |
| A | B | C | D | E |

25. A cuboid is shown on a 3-D grid.

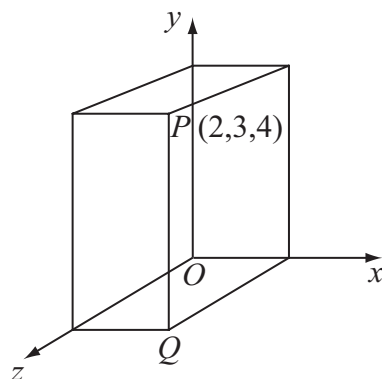


Diagram **NOT**
accurately drawn

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

The coordinates of the point Q are

- | | | | | |
|-------------|-------------|-------------|-------------|-------------|
| $(2, 3, 0)$ | $(0, 3, 4)$ | $(0, 0, 4)$ | $(2, 0, 0)$ | $(2, 0, 4)$ |
| A | B | C | D | E |

TOTAL FOR PAPER: 25 MARKS

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