Surname	Initial(s)
Signature	

Paper Reference(s)

5382F/07

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier

Unit 2 Stage 1

Monday 15 November 2010 – Afternoon

Time: 30 minutes

Materials required for examination
Multiple Choice Answer Sheet.
Ruler graduated in centimetres and millimetres, protractor, compasses, HB pencil, eraser.

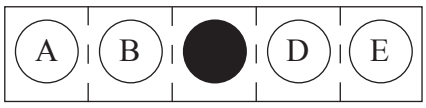
Items included with question papers
Nil

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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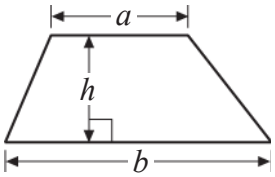
GCSE Mathematics 2381

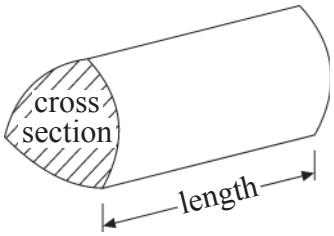
Formulae: Foundation Tier

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 × length



Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. What is the number 6040 when written in words?

Sixty thousand and forty
A

Six thousand and four
B

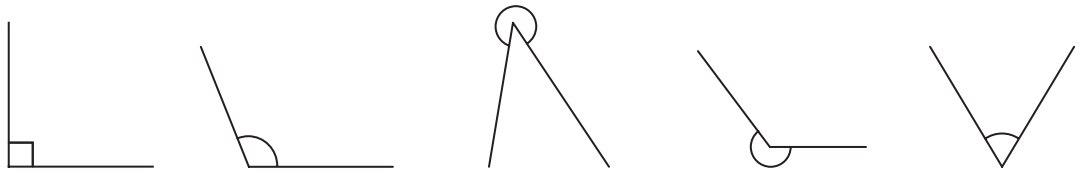
Six hundred and forty
C

Six thousand and forty
D

Six hundred and four
E

---

2. Which of the marked angles is a right angle?



A **B** **C** **D** **E**

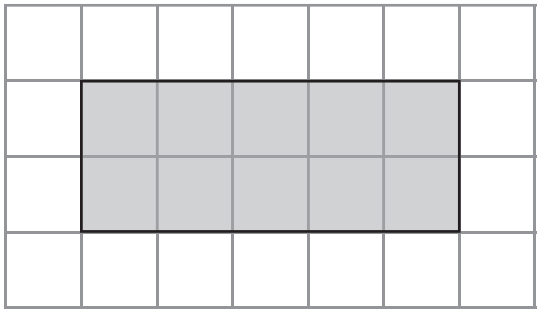
---

3. Which number is a multiple of 4?

2	14	12	10	18
A	**B**	**C**	**D**	**E**

---

4. Here is a shaded rectangle on a centimetre grid.



What is the perimeter of the shaded rectangle?

26 cm	14 cm	18 cm	10 cm	28 cm
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

17	16	20	18	19
A	**B**	**C**	**D**	**E**

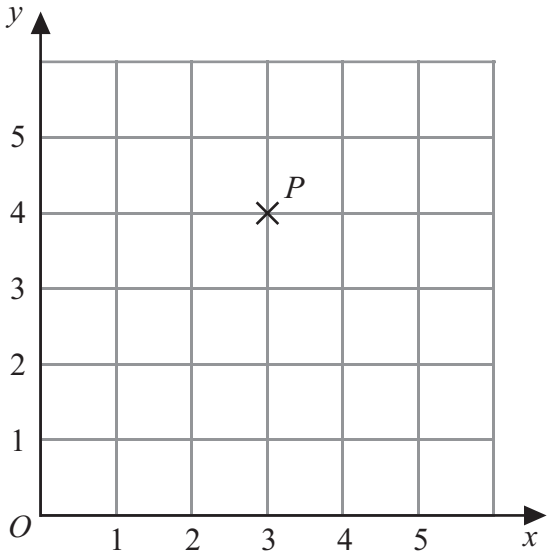
---

6. In one week 3647 people visited a supermarket.

The number 3647 when rounded to the nearest ten is

3640	3000	3650	4000	3600
A	**B**	**C**	**D**	**E**

7.



The coordinates of the point P are

(3, 4)	(3, 0)	(0, 4)	(4, 3)	(4, 5)
A	**B**	**C**	**D**	**E**

8.

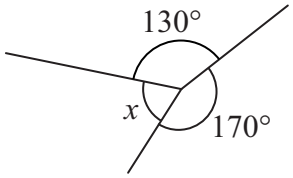


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

160°	50°	100°	60°	80°
A	**B**	**C**	**D**	**E**

9.

Which number is marked with the arrow?

8.2	7.9	8.7	8.1	7.8
A	**B**	**C**	**D**	**E**

---

10. Which is the smallest number?

3.4	3.07	3.73	3.3	3.34
A	**B**	**C**	**D**	**E**

---

11. Here are the first five terms of a sequence.

5 8 11 14 17

The 10th term of this sequence is

32	35	30	20	34
A	**B**	**C**	**D**	**E**

---

12. One of these fractions is equivalent to $\frac{3}{5}$

Which fraction?

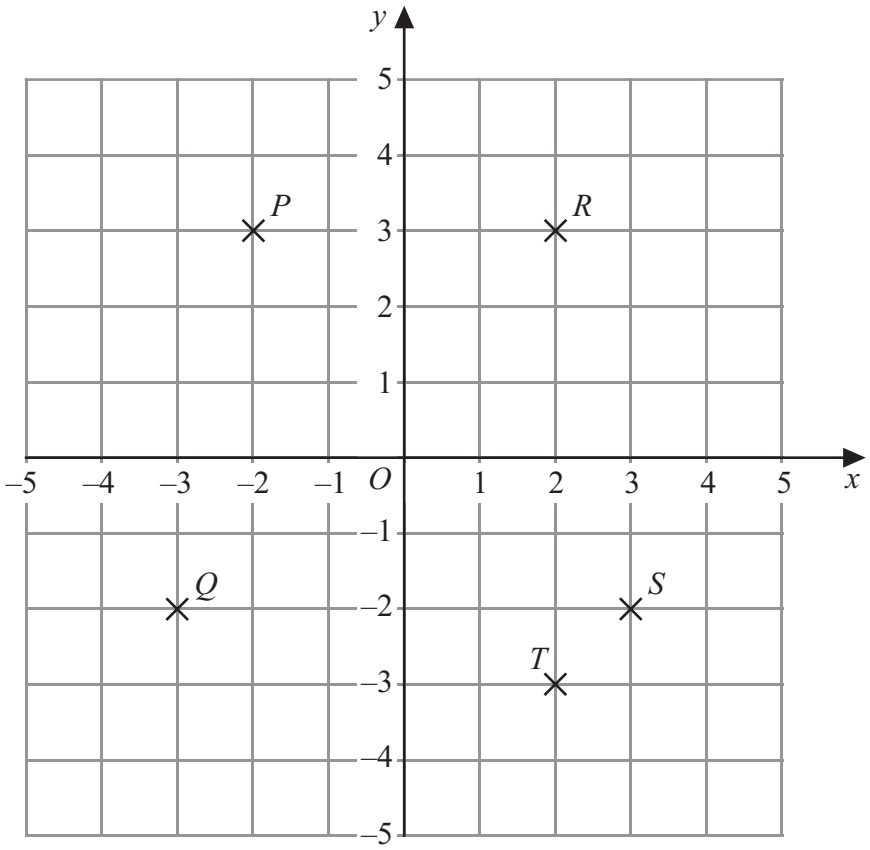
$\frac{5}{15}$	$\frac{3}{10}$	$\frac{12}{20}$	$\frac{16}{20}$	$\frac{12}{30}$
A	**B**	**C**	**D**	**E**

---

13. $18 - 8 \times 2 =$

2	34	20	52	10
A	**B**	**C**	**D**	**E**

14.



Which point has the coordinates (3, –2)?

P	*Q*	*R*	*S*	*T*
A	**B**	**C**	**D**	**E**

---

15. William has t toy cars.
His friend gives him 3 more toy cars.

Which is the expression for the number of toy cars William now has?

$t - 3$	$3t$	$\frac{t}{3}$	$t + 3$	$3 - t$
A	**B**	**C**	**D**	**E**

16.

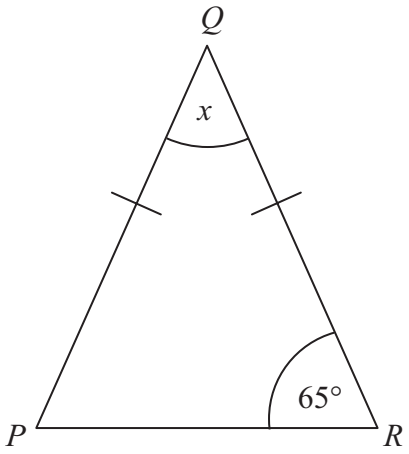


Diagram **NOT** accurately drawn

PQR is an isosceles triangle.
QP = *QR*.
Angle *R* = 65°.

The size of the angle marked *x* is

60°	50°	115°	40°	65°
A	**B**	**C**	**D**	**E**

---

17. Which is the smallest fraction?

$\frac{27}{40}$	$\frac{4}{5}$	$\frac{13}{20}$	$\frac{3}{4}$	$\frac{7}{10}$
A	**B**	**C**	**D**	**E**

---

18. $-5 \times -6 =$

–11	–30	11	–1	30
A	**B**	**C**	**D**	**E**

---

19. A train left York at 14 30
The train arrived in Edinburgh at 17 15

How long did the train journey take?

2 hours 45 minutes **A**	3 hours 45 minutes **B**
3 hours 15 minutes **C**	2 hours 15 minutes **D**
4 hours 15 minutes **E**	

20.

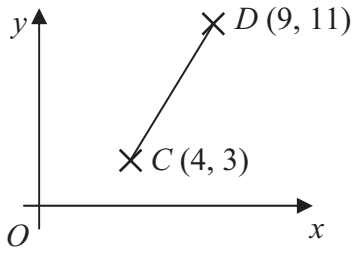


Diagram **NOT** accurately drawn

C is the point (4, 3).
D is the point (9, 11).

The coordinates of the midpoint of *CD* are

$(7,\ 6\frac{1}{2})$	$(4\frac{1}{2}\ ,\ 5\frac{1}{2})$	$(6\frac{1}{2}, 7)$	(13, 14)	(5, 8)
A	**B**	**C**	**D**	**E**

21.

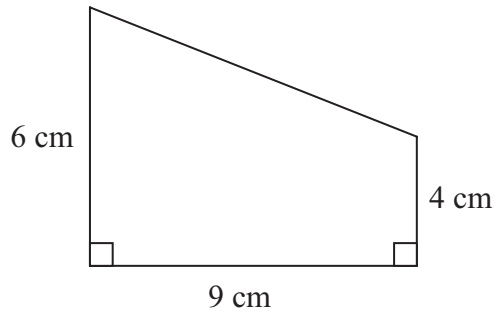


Diagram **NOT** accurately drawn

The area of this shape is

19 cm^2	54 cm^2	90 cm^2	216 cm^2	45 cm^2
A	**B**	**C**	**D**	**E**

---

22. A cuboid is shown on a 3-D coordinate grid.

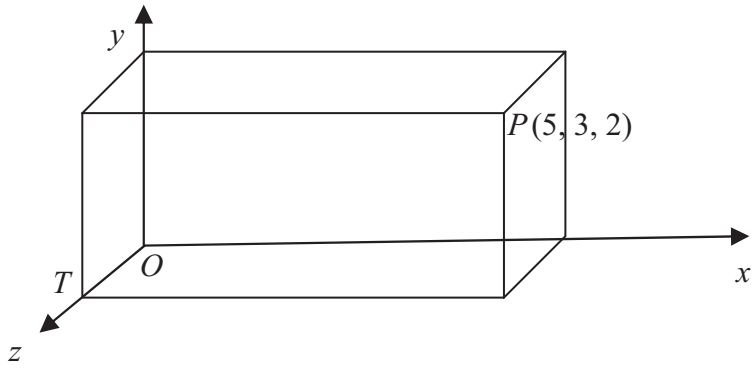


Diagram **NOT** accurately drawn

O, *P* and *T* are vertices of the cuboid.
The point *P* has the coordinates (5, 3, 2).

The coordinates of the point *T* are

(0, 0, 2)	(2, 0, 0)	(0, 3, 0)	(0, 3, 2)	(5, 0, 0)
A	**B**	**C**	**D**	**E**

---

23. What is 60 written as a product of its prime factors?

2, 2, 3, 5	$2 \times 2 \times 15$	$1 \times 2 \times 2 \times 3 \times 5$	6×10	$2 \times 2 \times 3 \times 5$
A	**B**	**C**	**D**	**E**

---

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

7 10 13 16 19

What is the expression for the nth term of this sequence?

$3n$	$n + 3$	$5n + 3$	$3n + 5$	$3n + 4$
A	**B**	**C**	**D**	**E**

---

25. A cinema ticket costs £3.85
A teacher buys 32 of these tickets for a school group.

What is the total cost of the 32 tickets?

£133.20	£123.20	£19.25	£18.25	£113.20
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

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