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 13 June 2011 – Afternoon

Time: 30 minutes

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

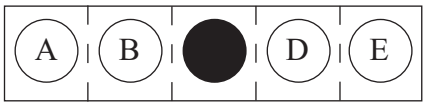
Items included with question papers
Nil

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.

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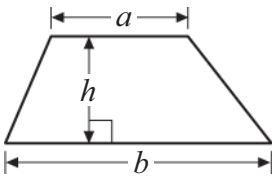
GCSE Mathematics 2381

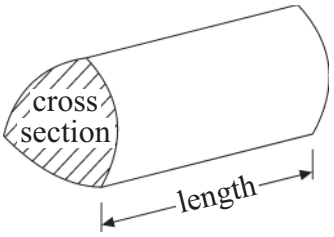
Formulae: Foundation Tier

You must not write on this formulae page.
Anything you write on this formulae page will gain NO credit.

Area of trapezium = $\frac{1}{2}(a + b)h$



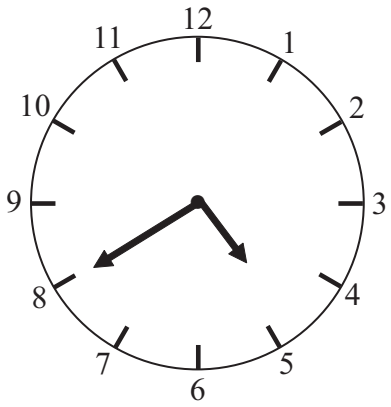
Volume of prism = area of cross section × length



Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1.



What time is shown on the clock?

twenty past 8	twenty to 5	04 45	16 20	8 minutes to five
A	**B**	**C**	**D**	**E**

---

2. What is 942.8 rounded to the nearest whole number?

900	940	942	943	950
A	**B**	**C**	**D**	**E**

---

3. Which number is a multiple of 6?

2	3	16	12	15
A	**B**	**C**	**D**	**E**

---

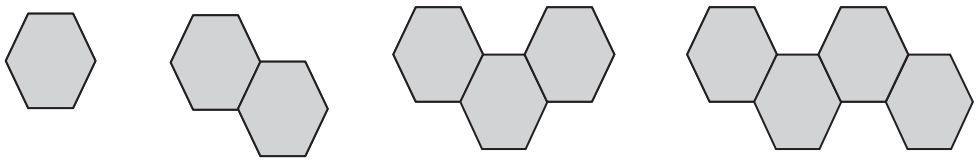
4. Daniel wants to buy a magazine costing £2.30
He only has £1.64

How much more money does he need?

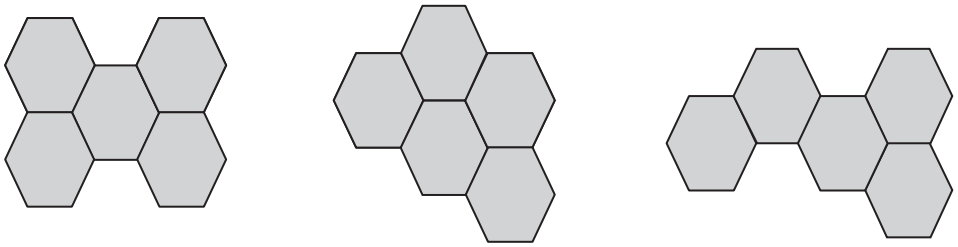
£1.34	34p	66p	74p	£3.94
A	**B**	**C**	**D**	**E**

---

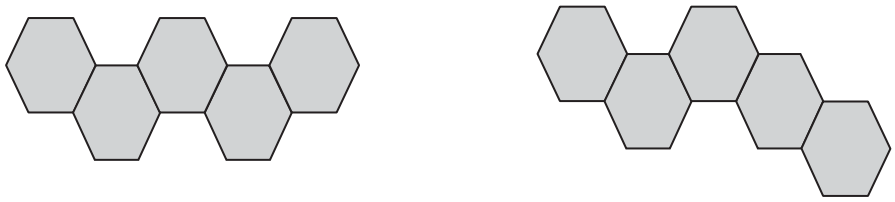
5. Here is a sequence of patterns made from hexagons.



What is the next pattern in the sequence?



A **B** **C**



D **E**

---

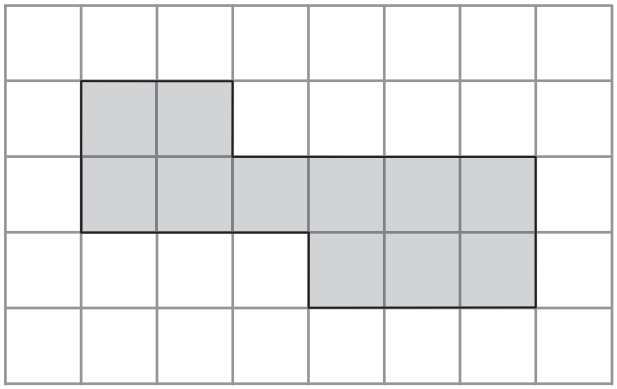
6. A TV programme starts at 17 55
It ends at 19 10

How long is the programme?

2 hours 45 minutes	1 hour 55 minutes	1 hour 45 minutes	1 hours 15 minutes	2 hours 15 minutes
A	**B**	**C**	**D**	**E**

---

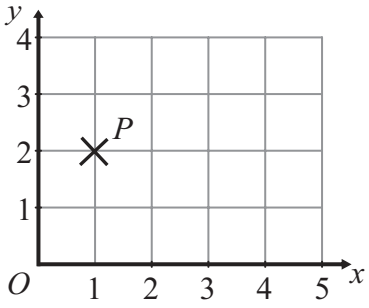
7. The diagram shows a shaded shape on a grid of centimetre squares.



What is the perimeter of the shaded shape?

22 cm	18 cm	29 cm	11 cm	40 cm
A	**B**	**C**	**D**	**E**

8.

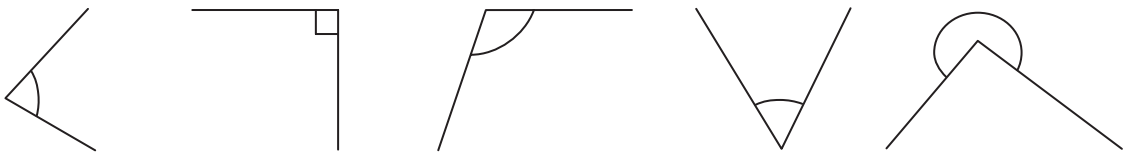


The coordinates of the point P are

(1, 0)	(1, 2)	(2, 1)	(2, 0)	(2, 2)
A	**B**	**C**	**D**	**E**

---

9. Which of the marked angles is a reflex angle?



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

---

10. What number is half way between −2 and 4?

3	–3	1	0	–1
A	**B**	**C**	**D**	**E**

---

11. Alan is x years of age.
Brenda is 5 years younger than Alan.

Which is the expression for Brenda's age?

$x - 5$	$5x$	$5 - x$	$x + 5$	x^5
A	**B**	**C**	**D**	**E**

---

12. One of these fractions is equivalent to $\frac{2}{5}$

Which fraction?

$\frac{4}{20}$	$\frac{8}{30}$	$\frac{12}{40}$	$\frac{30}{50}$	$\frac{24}{60}$
A	**B**	**C**	**D**	**E**

---

13. Which of these numbers are prime numbers?

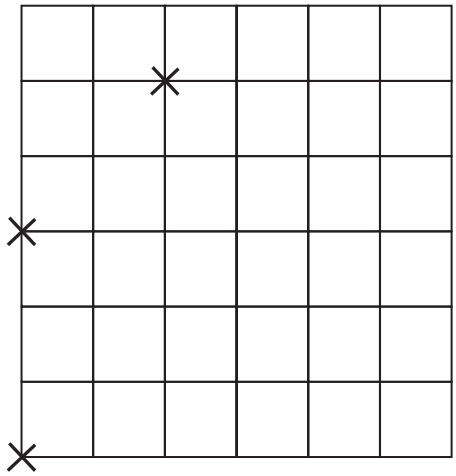
2 5 8 9 12 15

2 and 9	5 and 9	9 and 15	2 and 5	8 and 12
A	**B**	**C**	**D**	**E**

---

14. *PQRS* is a parallelogram.

P has coordinates (0, 0).
Q has coordinates (0, 3).
R has coordinates (2, 5).



The coordinates of *S* are

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

---

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

–3 1 5 9 13

What is the 10th term of the sequence?

26	17	33	37	41
A	**B**	**C**	**D**	**E**

---

16. One of these statements is true for all values of x.
Which one?

$6x - x = 5$	$6x - x = 7x$	$6x - x = 6 - x$	$6x - x = 5x$	$6x - x = 6$
A	**B**	**C**	**D**	**E**

---

17. The nth term of a sequence is $5n - 2$

What is the 4th term of the sequence?

20	52	18	10	7
A	**B**	**C**	**D**	**E**

---

18. $23.5 \div 0.1 =$

0.235	235	0.0235	2350	2.35
A	**B**	**C**	**D**	**E**

---

19. The diagram shows a right-angled triangle.

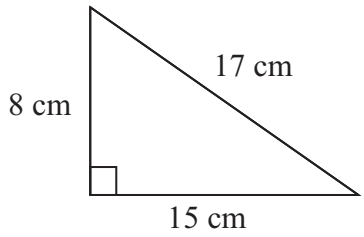


Diagram **NOT** accurately drawn

The area of this triangle is

40 cm^2	60 cm^2	120 cm^2	255 cm^2	68 cm^2
A	**B**	**C**	**D**	**E**

---

20. Which is the best estimate for the value of $\dfrac{3.95 \quad 11.2}{0.53}$?

40	800	20	80	400
A	**B**	**C**	**D**	**E**

---

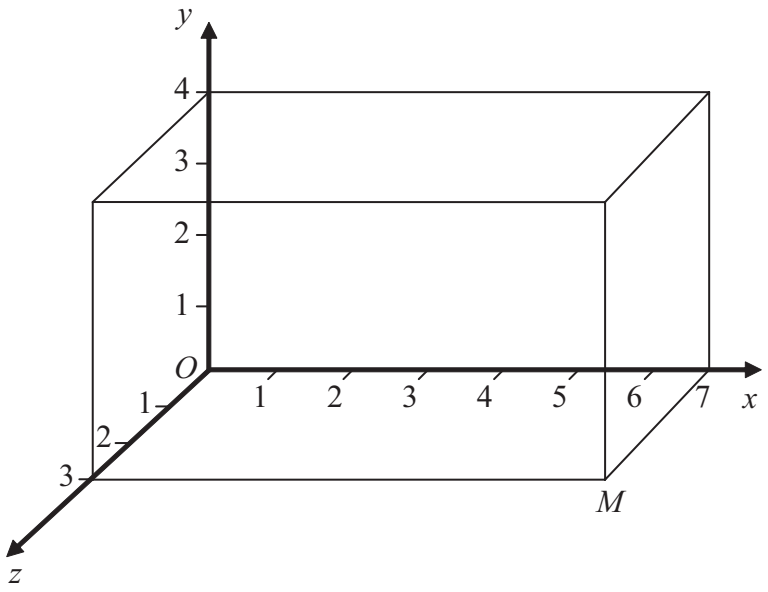
21. Given that $2.8 \times 14.5 = 40.6$

$406 \div 0.28 =$

14500	145000	14.5	145	1450
A	**B**	**C**	**D**	**E**

---

22. Here is a cuboid drawn on a 3-D grid.
The point M is a vertex of the cuboid.



What are the coordinates of the point M?

(3, 0, 7)	(7, 3, 0)	(0, 7, 4)	(4, 3, 7)	(7, 0, 3)
A	**B**	**C**	**D**	**E**

23.

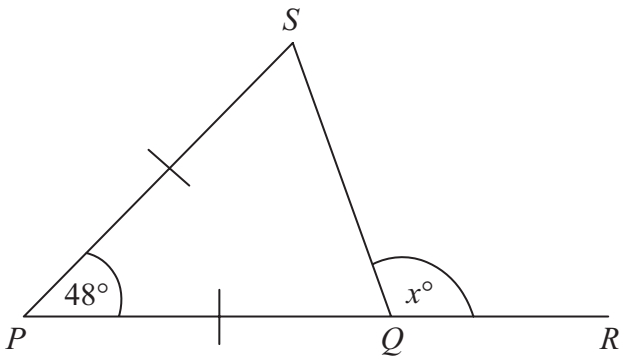


Diagram **NOT** accurately drawn

PQR is a straight line.
SPQ is an isosceles triangle.
Angle $SPQ = 48°$.

What is the value of x?

72	114	48	66	132
A	**B**	**C**	**D**	**E**

---

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

2 7 12 17 22

Which is the expression for the nth term of the sequence?

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

---

25. What are the coordinates of the midpoint of the line joining $P(-1, 5)$ to $Q(4, -1)$?

(–2.5, 3)	(1.5, 2)	(2, 1.5)	(3, 4)	(2.5, 3)
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

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