EDEXCEL GCSE MATHEMATICS (MODULAR 2381)

MATHS



EXAM QUESTION PACK

UNIT 2 STAGE 1 (PAPER 7) FOUNDATION TIER 5382F PAPERS

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Surname	Initial(s)
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Paper Reference(s)

5382F/07

Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Thursday 17 November 2011 – Afternoon

Time: 30 minutes

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

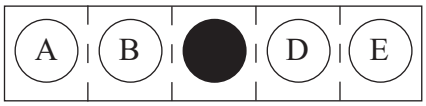
Items included with question papers
Nil

Instructions to Candidates

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Before the test begins:
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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

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There are 12 pages in this question paper. Any blank pages are indicated.

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Return at the end to those you have left out.

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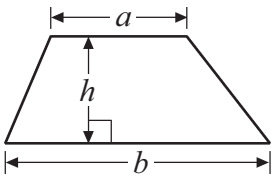
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GCSE Mathematics 2381

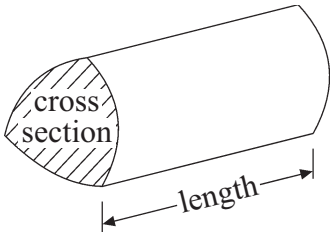
Formulae: Foundation Tier

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



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Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. What is six thousand and fifty seven when written in figures?

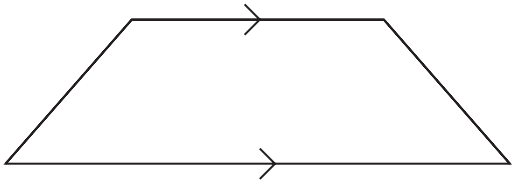
6570	600 057	657	6057	6507
A	**B**	**C**	**D**	**E**

---

2. Which number is a multiple of 10?

5	30	2	25	1
A	**B**	**C**	**D**	**E**

3.



What is the special name of this quadrilateral?

Parallelogram	Rhombus	Rectangle	Kite	Trapezium
A	**B**	**C**	**D**	**E**

---

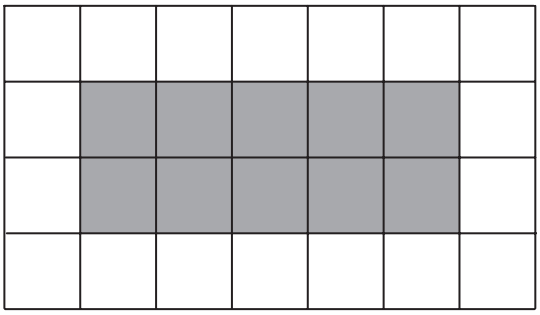
4. 54 328 people watched a concert.

The number 54 328 when rounded to the nearest hundred is

54 300	50 000	54 000	54 400	54 330
A	**B**	**C**	**D**	**E**

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5. Here is a shaded shape drawn on a centimetre grid.



What is the area of the shaded shape?

$14\ cm^2$	$10\ cm^2$	$28\ cm^2$	$18\ cm^2$	$22\ cm^2$
A	**B**	**C**	**D**	**E**

---

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

4 7 10 13

The next number in the sequence is

15	14	16	19	17
A	**B**	**C**	**D**	**E**

---

7. The fraction $\frac{40}{60}$ when written in its simplest form is

$\frac{20}{30}$	$\frac{4}{6}$	$\frac{2}{3}$	$\frac{3}{5}$	$\frac{8}{12}$
A	**B**	**C**	**D**	**E**

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8. Here is a sequence of patterns made from sticks.



Pattern 1 Pattern 2 Pattern 3

Pattern	1	2	3
Number of sticks	5	9	13

What is the number of sticks needed for Pattern 6?

17	29	21	26	25
A	**B**	**C**	**D**	**E**

---

9. One list of decimals is in order of size.
Which one?

A	B	C	D	E
8.23 8.32 8.3 8.03 8.2	8.2 8.03 8.3 8.23 8.32	8.03 8.2 8.3 8.23 8.32	8.03 8.2 8.23 8.3 8.32	8.2 8.23 8.03 8.3 8.32

---

10. Pencils cost 21p each.

Sarah buys 7 pencils.
She pays with a £5 note.

How much change should she get?

£3.53	£4.47	£1.47	£3.63	£4.53
A	**B**	**C**	**D**	**E**

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11.

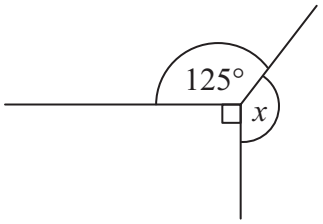


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

235°	215°	155°	145°	55°
A	**B**	**C**	**D**	**E**

---

12. What is 3.5 metres in centimetres?

35 cm	3500 cm	305 cm	3.50 cm	350 cm
A	**B**	**C**	**D**	**E**

---

13. Buns cost x pence each.
Doughnuts cost y pence each.

James buys 3 buns and 5 doughnuts.

Which is the expression for the total cost in pence?

$15xy$	$3x + 5y$	$5x + 3y$	$8(x + y)$	$x + y$
A	**B**	**C**	**D**	**E**

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14. A bus leaves Cambridge at 13 40
It arrives in London at 15 25

How long does the journey take?

A	B	C	D	E
2 hours 45 minutes	3 hours 45 minutes	2 hours 15 minutes	1 hour 45 minutes	3 hours 15 minutes

15. $24 - 4 \times 5 =$

A	B	C	D	E
−4	100	4	10	14

16. Here is an isosceles triangle.

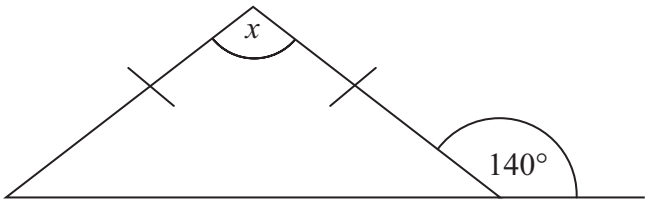


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

A	B	C	D	E
40°	100°	70°	140°	80°

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17. Here is a list of numbers

1, 2, 6, 7, 9, 12

Which two of these numbers are prime numbers?

2 and 7	1 and 7	2 and 9	1 and 9	6 and 12
A	**B**	**C**	**D**	**E**

---

18. $-4 \times -5 =$

–20	–9	9	1	20
A	**B**	**C**	**D**	**E**

---

19. $316 \times 54 =$

17064	2844	16064	2944	15000
A	**B**	**C**	**D**	**E**

---

20. The nth term of a sequence is $5n + 1$

What is the 7th term of the sequence?

36	7	58	12	43
A	**B**	**C**	**D**	**E**

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21. What is 90 written as a product of its prime factors?

A	B	C	D	E
$2 + 3 + 3 + 5$	$3 \times 3 \times 10$	9×10	$2 \times 3 \times 3 \times 5$	2, 3, 3, 5

---

22. What are the coordinates of the midpoint of the line joining (4, 6) to (8, 9)?

A	B	C	D	E
(12, 15)	(4, 3)	$(6, 7\frac{1}{2})$	$(2, 1\frac{1}{2})$	$(7\frac{1}{2}, 6)$

23.

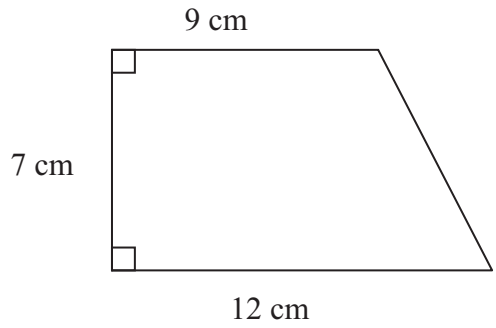


Diagram **NOT** accurately drawn

What is the area of this shape?

A	B	C	D	E
84 cm^2	73.5 cm^2	28 cm^2	108 cm^2	756 cm^2

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24.

Cinema tickets	
Adult	£7.50
Child	£3.50
Family (2 adults and 2 children)	£19.50

Sunil wants to buy cinema tickets for 4 adults and 4 children.

It is cheaper for him to buy family tickets.
How much cheaper?

£2.50	£8.50	£5	£17	£6
A	**B**	**C**	**D**	**E**

---

25. Here are the first 5 terms of an arithmetic sequence.

9 15 21 27 33

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

$n + 6$	$3n + 6$	$6n$	$6n - 3$	$6n + 3$
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

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Mark Scheme (Results)

November 2011

GCSE Mathematics (2381)
Paper 5382F_07 (Non-Calculator)

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Question	1	2	3	4	5	6	7	8	9
Answer	D	B	E	A	B	C	C	E	D
Question	10	11	12	13	14	15	16	17	18
Answer	A	D	E	B	D	C	B	A	E
Question	19	20	21	22	23	24	25		
Answer	A	A	D	C	B	C	E		

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Paper Reference(s)

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Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Monday 13 June 2011 – Afternoon

Time: 30 minutes

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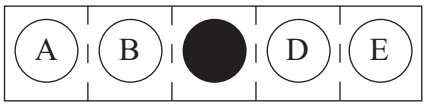
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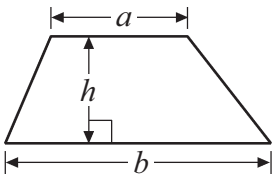
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GCSE Mathematics 2381

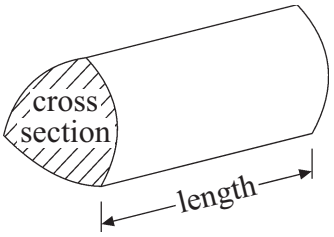
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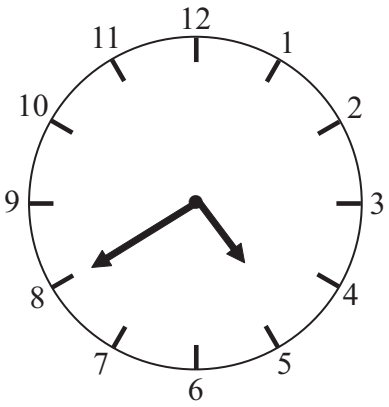


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Answer ALL TWENTY FIVE questions using the answer sheet.

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**

---

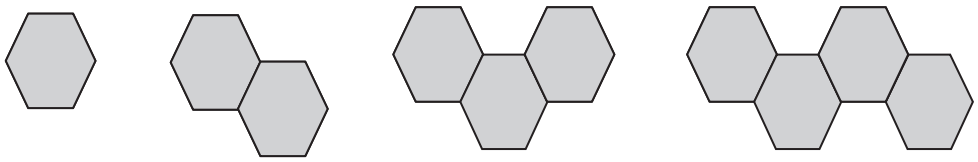
4. Daniel wants to buy a magazine costing £2.30
He only has £1.64

How much more money does he need?

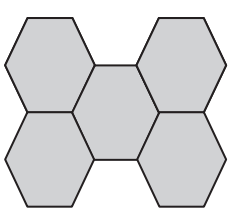
£1.34	34p	66p	74p	£3.94
A	**B**	**C**	**D**	**E**

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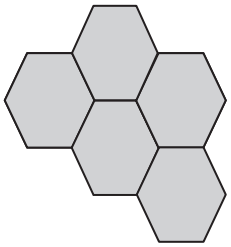
5. Here is a sequence of patterns made from hexagons.



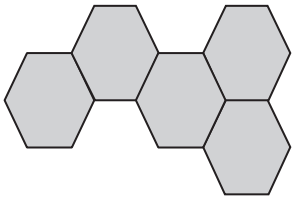
What is the next pattern in the sequence?



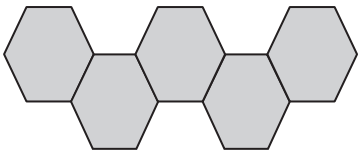
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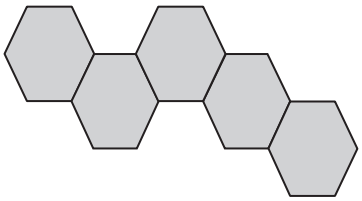
B



C



D



E

---

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

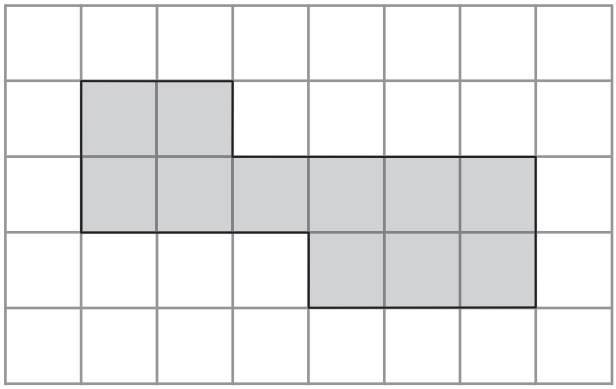
How long is the programme?

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

---

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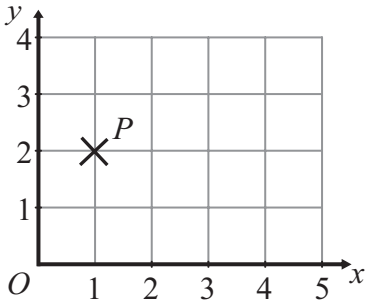
7. The diagram shows a shaded shape on a grid of centimetre squares.



What is the perimeter of the shaded shape?

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

8.

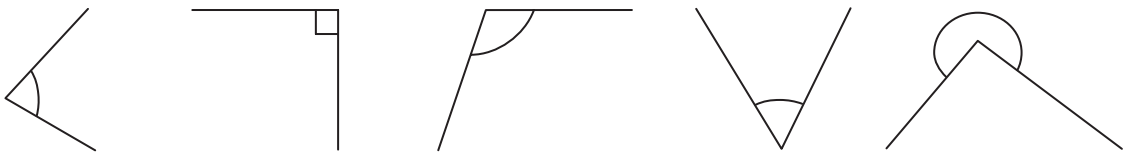


The coordinates of the point P are

(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**

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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?

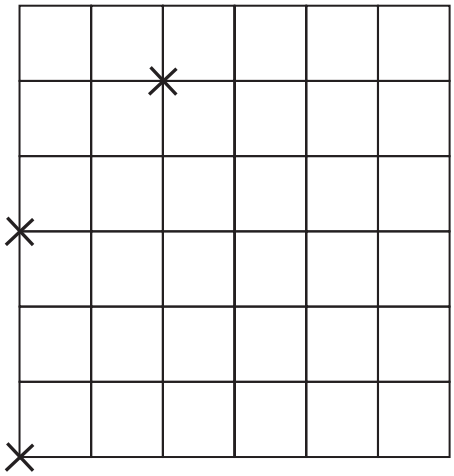
2 5 8 9 12 15

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

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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**

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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.

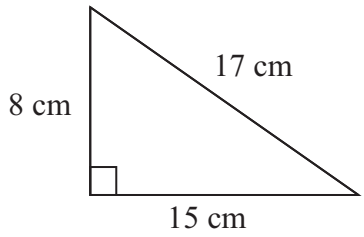


Diagram **NOT** accurately drawn

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 $\dfrac{3.95 \times 11.2}{0.53}$?

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

---

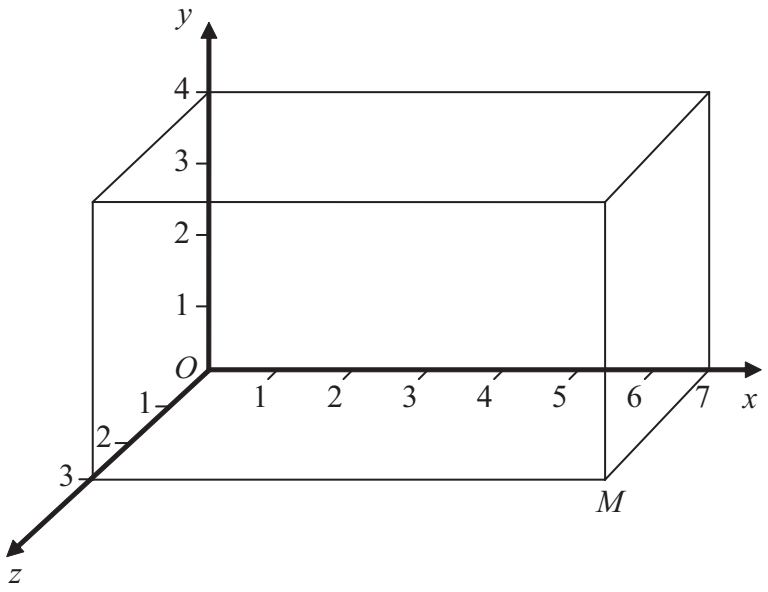
21. Given that $2.8 \times 14.5 = 40.6$

$406 \div 0.28 =$

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

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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.

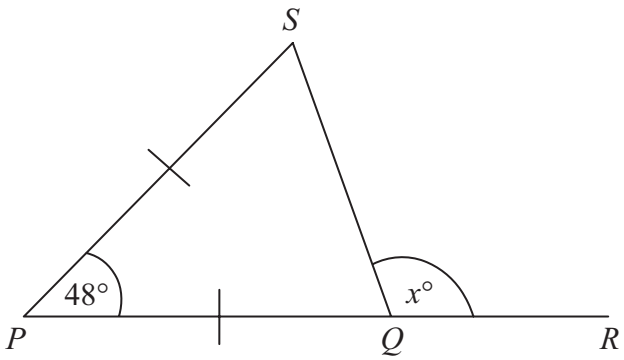


Diagram **NOT** accurately drawn

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**

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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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Mark Scheme (Results)

June 2011

GCSE Mathematics (5382F)
Paper 07 (Non-Calculator)

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June 2011
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Question	1	2	3	4	5	6	7	8	9
	B	D	D	C	D	D	B	B	E
Question	10	11	12	13	14	15	16	17	18
	C	A	E	D	E	C	D	C	B
Question	19	20	21	22	23	24	25		
	B	D	E	E	B	D	B		

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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.

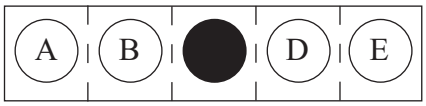
Items included with question papers
Nil

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.

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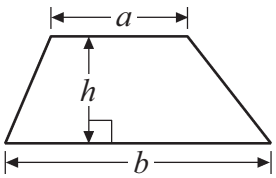
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GCSE Mathematics 2381

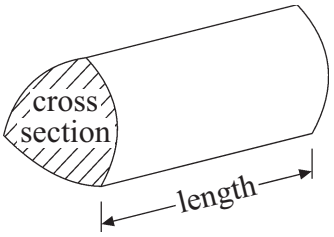
Formulae: Foundation Tier

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



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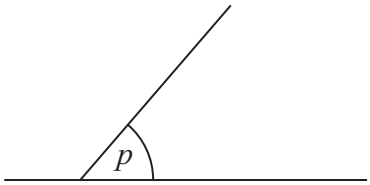
Answer ALL TWENTY FIVE questions using the answer sheet.

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**

---

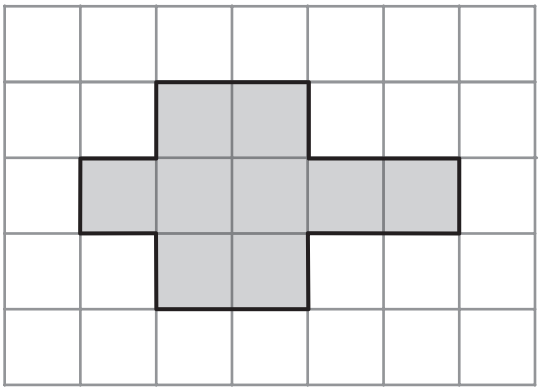
3. Zack buys a magazine for £2.95
He also buys a coffee for £1.75

What is the total cost?

£3.60	£4.70	£4.60	£1.20	£3.70
A	**B**	**C**	**D**	**E**

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

---

5. The first even number is 2

What is the seventh even number?

7	16	13	14	12
A	**B**	**C**	**D**	**E**

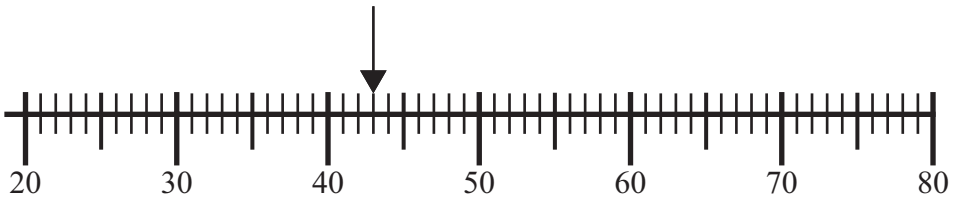
---

6. The value of the **6** in the number 3**6**71 is

60	6	600	6000	$\frac{6}{100}$
A	**B**	**C**	**D**	**E**

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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**

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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

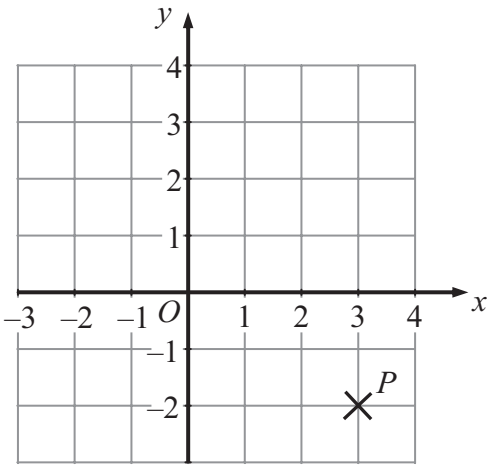
11. Ed has x sweets.

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**

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

$2\frac{3}{10}$	$\frac{23}{10}$	$\frac{23}{100}$	$\frac{23}{1000}$	$\frac{2}{3}$
A	**B**	**C**	**D**	**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	5 and 6	9 and 12	2 and 5	5 and 9
A	**B**	**C**	**D**	**E**

---

15. Here is an isosceles triangle.

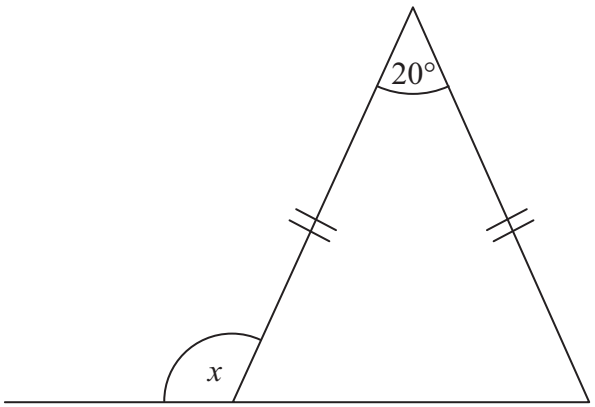


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

100°	160°	70°	20°	80°
A	**B**	**C**	**D**	**E**

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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 nth 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**

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20.

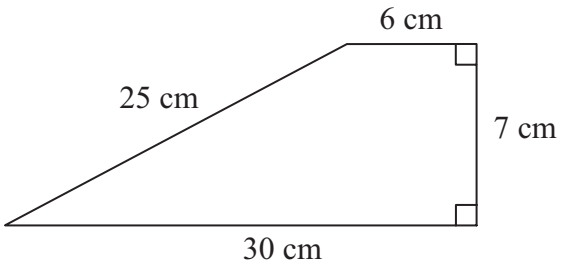


Diagram **NOT** accurately drawn

The area of this shape is

68 cm²	450 cm²	105 cm²	126 cm²	210 cm²
A	**B**	**C**	**D**	**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

$12x + 6y$	$6x + 12y$	$x + y$	$18\,xy$	$18(x + y)$
A	**B**	**C**	**D**	**E**

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22.

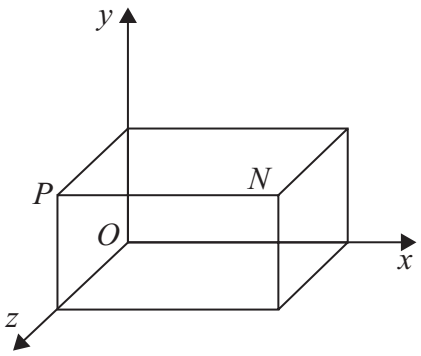


Diagram **NOT** accurately drawn

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

The coordinates of the point P are

(4, 2, 0)	(4, 0, 3)	(0, 2, 3)	(2, 2, 3)	(0, 0, 3)
A	**B**	**C**	**D**	**E**

---

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

7 11 15 19 23

The nth term of this sequence is

$4n + 7$	$4n + 3$	$n + 4$	$4n$	$n - 4$
A	**B**	**C**	**D**	**E**

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24.

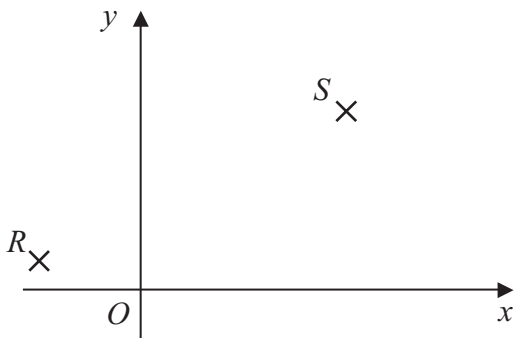


Diagram **NOT** accurately drawn

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

---

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

6	96	144	12	72
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

END

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Mark Scheme (Results)

March 2011

GCSE

GCSE Mathematics (Modular) - 2381
Paper: 5382F/07

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March 2011

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March 2011 Paper 5382F/07 Mark Scheme

Question	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Answer	D	A	B	A	D	C	B	C	C
Question	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Answer	E	A	E	C	E	A	D	A	C
Question	**19**	**20**	**21**	**22**	**23**	**24**	**25**		
Answer	C	D	B	C	B	C	E		

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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.

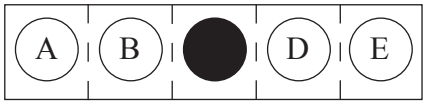
Items included with question papers
Nil

Instructions to Candidates

Use a HB pencil. Do not open this booklet until you are told to do so.

Before the test begins:
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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.
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Return at the end to those you have left out.

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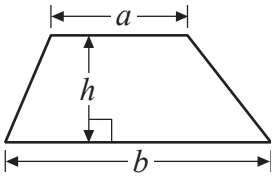
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GCSE Mathematics 2381

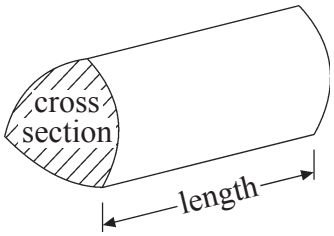
Formulae: Foundation Tier

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



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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

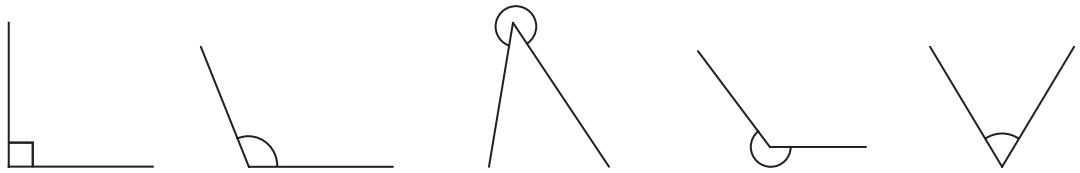
Six hundred and forty
C

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**

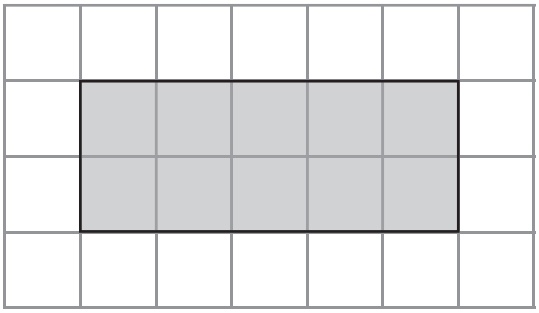
---

3. Which number is a multiple of 4?

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

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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**

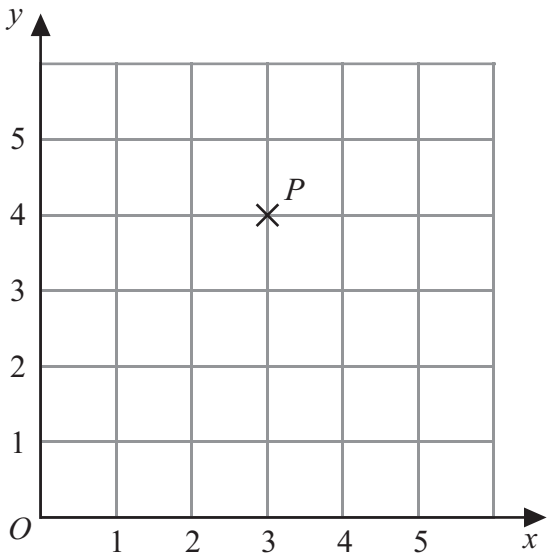
---

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.

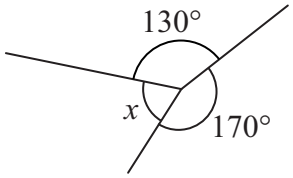
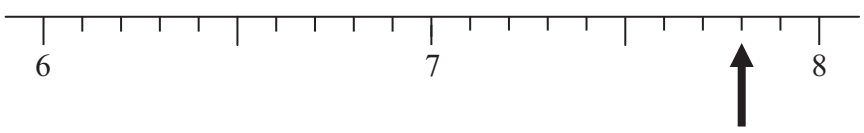


Diagram **NOT** accurately drawn

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**

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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**

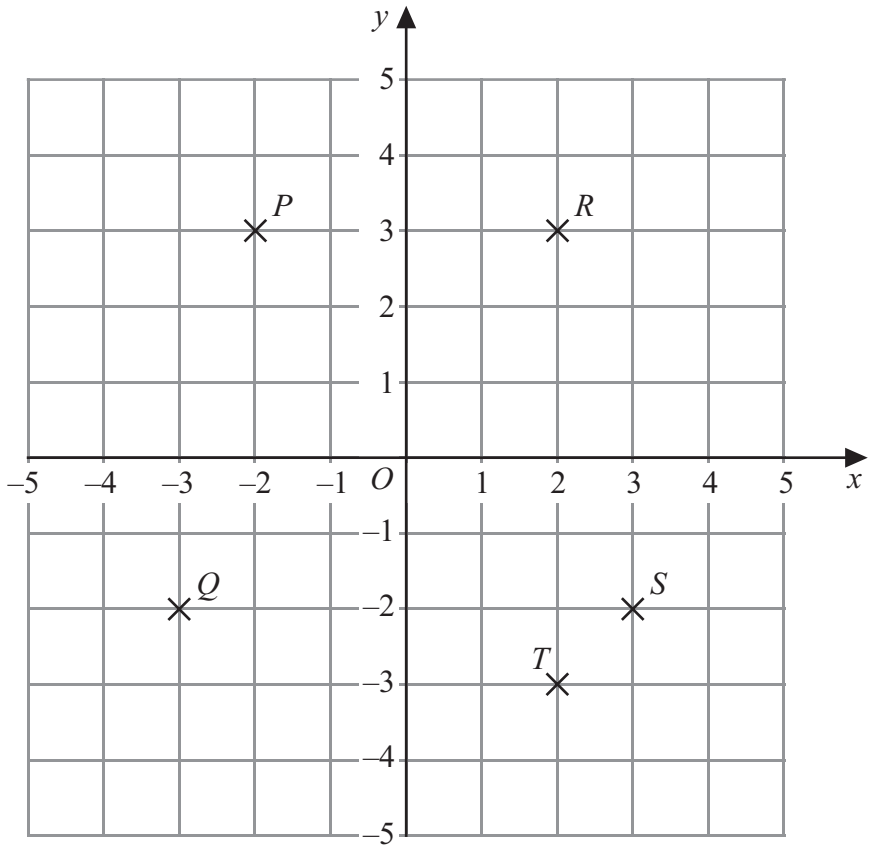
---

13. $18 - 8 \times 2 =$

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

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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**

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16.

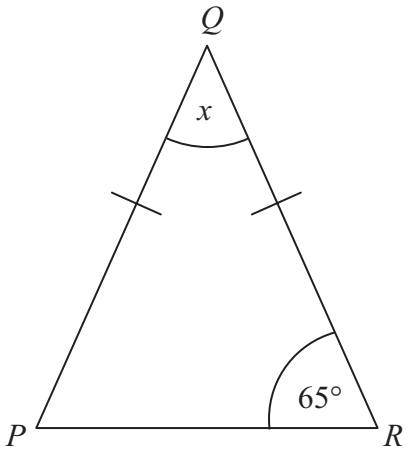


Diagram **NOT** accurately drawn

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**

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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.

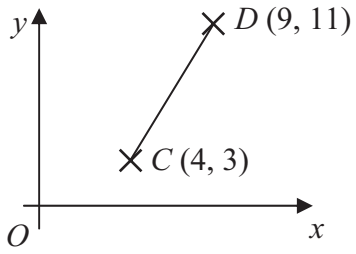


Diagram **NOT** accurately drawn

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

The coordinates of the midpoint of *CD* are

$(7,\ 6\frac{1}{2})$ **A**

$(4\frac{1}{2}\ ,\ 5\frac{1}{2})$ **B**

$(6\frac{1}{2},\ 7)$ **C**

(13, 14) **D**

(5, 8) **E**

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21.

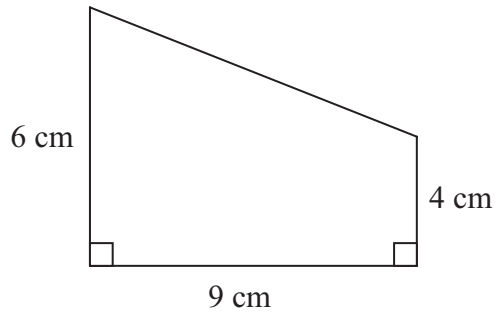


Diagram **NOT** accurately drawn

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.

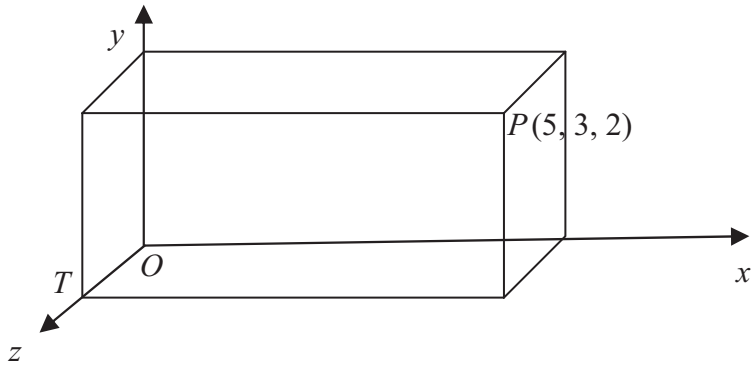


Diagram **NOT** accurately drawn

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**

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

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

---

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?

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

---

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?

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

TOTAL FOR PAPER: 25 MARKS

END

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Mark Scheme (Results)

November 2010

GCSE

GCSE Mathematics (Modular) - 2381
Paper: 5382F/07

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November 2010

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November 2010 Paper 5382F/07 Mark Scheme

Question	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
Answer	D	A	C	B	E	C	A	D	E
Question	**10**	**11**	**12**	**13**	**14**	**15**	**16**	**17**	**18**
Answer	B	A	C	A	D	D	B	C	E
Question	**19**	**20**	**21**	**22**	**23**	**24**	**25**		
Answer	A	C	E	A	E	E	B		

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Paper Reference(s)

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Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Wednesday 30 June 2010 – Morning

Time: 30 minutes

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

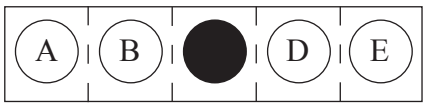
Items included with question papers
Nil

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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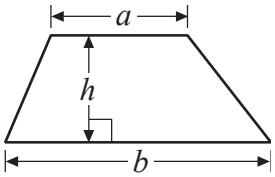
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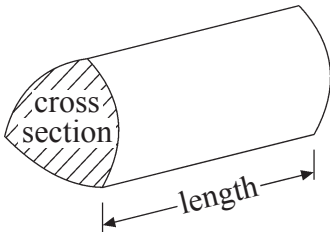
Formulae: Foundation Tier

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



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Answer ALL TWENTY FIVE questions using the answer sheet.

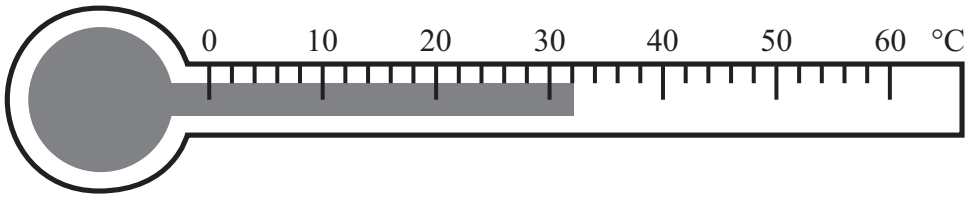
You must NOT use a calculator.

1. What is the number 70 560 in words?

A	B
Seventy thousand and fifty six	Seven thousand five hundred and sixty
C	**D**
Seventy thousand five hundred and sixty	Seventy thousand five hundred and six
E	
Seven thousand and fifty six	

---

2. What temperature is shown on this thermometer?



A	B	C	D	E
31°C	30.2°C	30.1°C	32°C	44°C

---

3. What is the number 87 942 rounded to the nearest thousand?

A	B	C	D	E
87 000	90 000	87 900	88 000	100 000

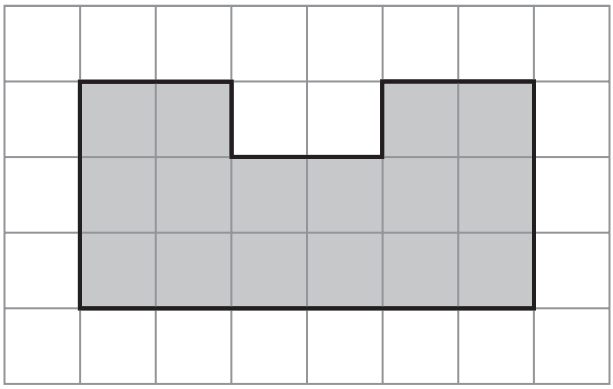
---

4. One number is **not** a factor of 24
Which number?

A	B	C	D	E
2	4	8	12	16

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5. The diagram shows a shaded shape on a centimetre grid.



What is the perimeter of the shaded shape?

20 cm	16 cm	22 cm	24 cm	40 cm
A	**B**	**C**	**D**	**E**

---

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

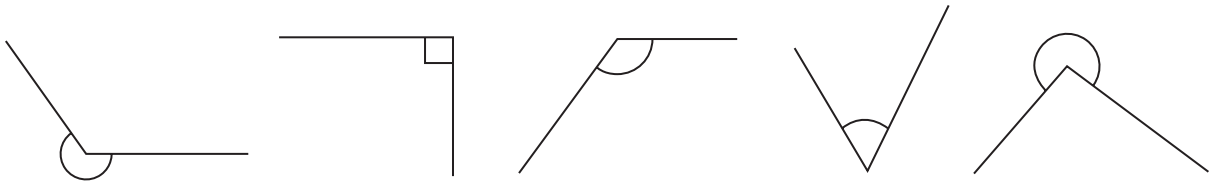
−2	3	8	13	18

The next term of this sequence is

23	–23	25	28	19
A	**B**	**C**	**D**	**E**

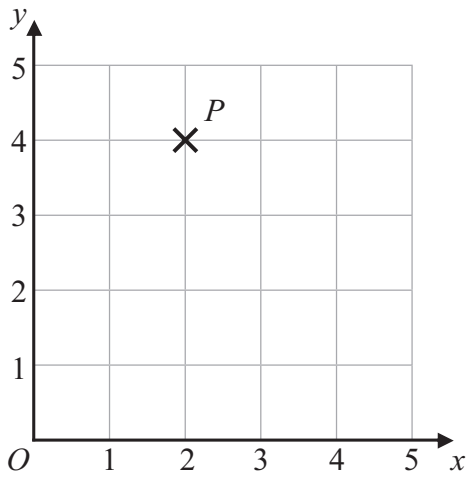
---

7. One of the marked angles is an obtuse angle.
Which angle?



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

8.



What are the coordinates of the point P?

(0, 4)	(4, 2)	(2, 0)	(0, 2)	(2, 4)
A	**B**	**C**	**D**	**E**

9. Which shape has diagonals that must cross at right angles?

Rectangle	Parallelogram	Rhombus	Trapezium	Quadrilateral
A	**B**	**C**	**D**	**E**

10. Which is the smallest number?

5	–3	–6	0	1
A	**B**	**C**	**D**	**E**

11. Jane's age is n years.
Duncan is 5 years younger than Jane.

What is Duncan's age?

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

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12. Here is a rectangle.

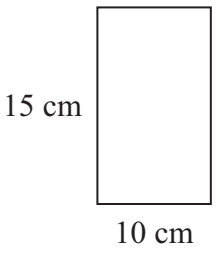


Diagram **NOT** accurately drawn

What is the area of this rectangle?

150 cm^2	50 cm^2	75 cm^2	325 cm^2	25 cm^2
A	**B**	**C**	**D**	**E**

13. Which is the largest number?

0.6	0.604	0.64	0.6044	0.074
A	**B**	**C**	**D**	**E**

14.

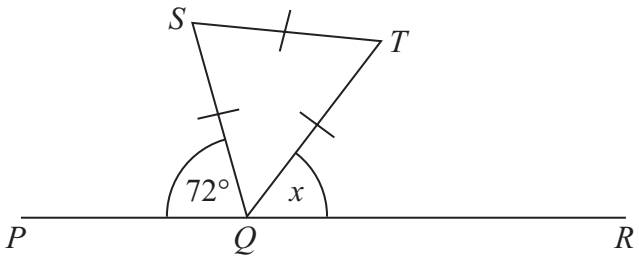


Diagram **NOT** accurately drawn

PQR is a straight line.
QST is an equilateral triangle.
Angle *SQP* = 72°

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

72°	48°	30°	54°	45°
A	**B**	**C**	**D**	**E**

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15. Mr Akbar left home at 08 35 to go to work.
He arrived at work at 09 17

How many minutes did it take Mr Akbar to get to work?

52 minutes	82 minutes	78 minutes	42 minutes	68 minutes
A	**B**	**C**	**D**	**E**

16. $12 + 8 \times 2 - 1 =$

27	20	21	–4	39
A	**B**	**C**	**D**	**E**

17. Here are the first four terms of a sequence.

1 7 13 19

One of these numbers is a term of this sequence.
Which number?

45	47	49	51	53
A	**B**	**C**	**D**	**E**

18. n is an odd number.

One of these expressions **always** represents an even number.
Which expression?

$n + 2$	$2n + 1$	$2n - 1$	$n + 1$	$3n$
A	**B**	**C**	**D**	**E**

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19. Here is a right-angled triangle.

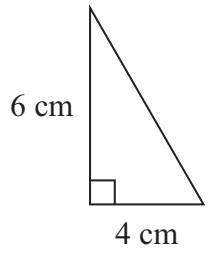


Diagram **NOT** accurately drawn

What is the area of this triangle?

12 cm^2	24 cm^2	5 cm^2	10 cm^2	6 cm^2
A	**B**	**C**	**D**	**E**

---

20. $-8-5=$

–13	–3	40	13	3
A	**B**	**C**	**D**	**E**

21.

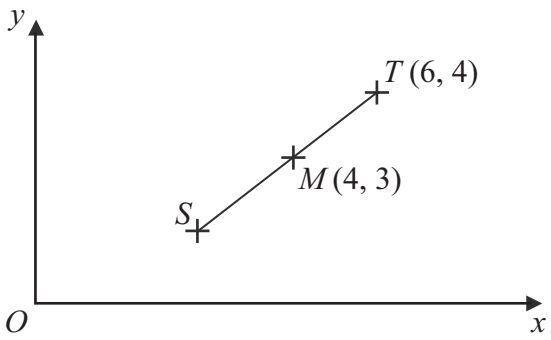


Diagram **NOT** accurately drawn

T is the point (6, 4).
M is the midpoint of ST.

Which are the coordinates of the point S ?

(2, 1)	(2, 2)	$(5, 3\frac{1}{2})$	(3, 2)	(3, 1)
A	**B**	**C**	**D**	**E**

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22. $\frac{27}{8} =$

$2\frac{7}{8}$	$\frac{8}{27}$	$3\frac{1}{8}$	$2\frac{3}{8}$	$3\frac{3}{8}$
A	**B**	**C**	**D**	**E**

23. The Highest Common Factor (HCF) of 24 and 40 is

2	8	120	4	960
A	**B**	**C**	**D**	**E**

24. $36.8 \times 1.65 = 60.72$

The value of 3.68×165 is

0.6072	60.72	607.2	6072	60720
A	**B**	**C**	**D**	**E**

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

−2 3 8 13 18

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

$n - 2$	$5n - 2$	$n + 5$	$5n - 7$	$5n$
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

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GCSE Mathematics (Modular) - 2381
Paper: 5382F/07

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June 2010 Paper 5382F/07 Mark Scheme

Question	Answer
1	C
2	D
3	D
4	E
5	A
6	A
7	C
8	E
9	C
10	C
11	E
12	A
13	C
14	B
15	D
16	A
17	C
18	D
19	A
20	A
21	B
22	E
23	B
24	C
25	D

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Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Tuesday 2 March 2010 – Afternoon

Time: 30 minutes

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

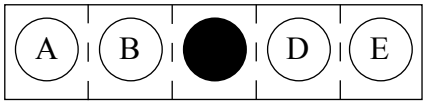
Items included with question papers
Nil

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 16 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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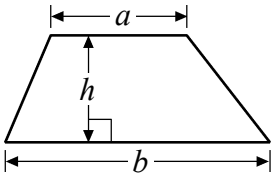
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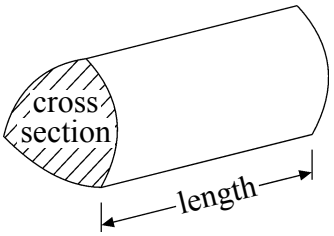
Formulae: Foundation Tier

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



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Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. There were 3246 people at a football match.

What is 3246 rounded to the nearest hundred?

3000	300	320	3200	3300
A	**B**	**C**	**D**	**E**

---

2. Here is a list of numbers.

36 240 18 34 2307

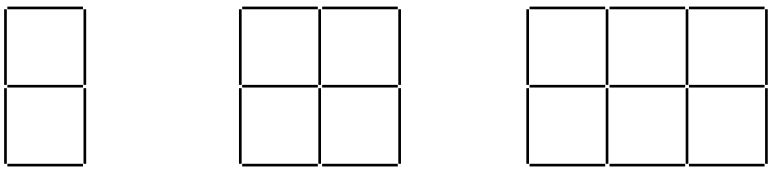
Connor is going to write down the numbers in order of size.
He writes down the smallest number.

Which number should he write down next?

36	240	18	34	2307
A	**B**	**C**	**D**	**E**

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3. Here is a sequence of patterns made from sticks.



Pattern 1 Pattern 2 Pattern 3

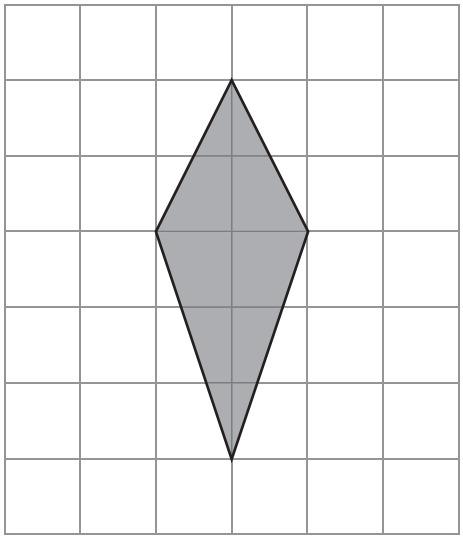
Pattern	1	2	3
Number of sticks	7	12	17

What is the number of sticks needed for Pattern 4?

21	22	23	24	25
A	**B**	**C**	**D**	**E**

---

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



What is the mathematical name for this shaded shape?

Kite	Rectangle	Square	Trapezium	Rhombus
A	**B**	**C**	**D**	**E**

---

5. $24 \times 7 =$

168	42	161	175	1428
A	**B**	**C**	**D**	**E**

---

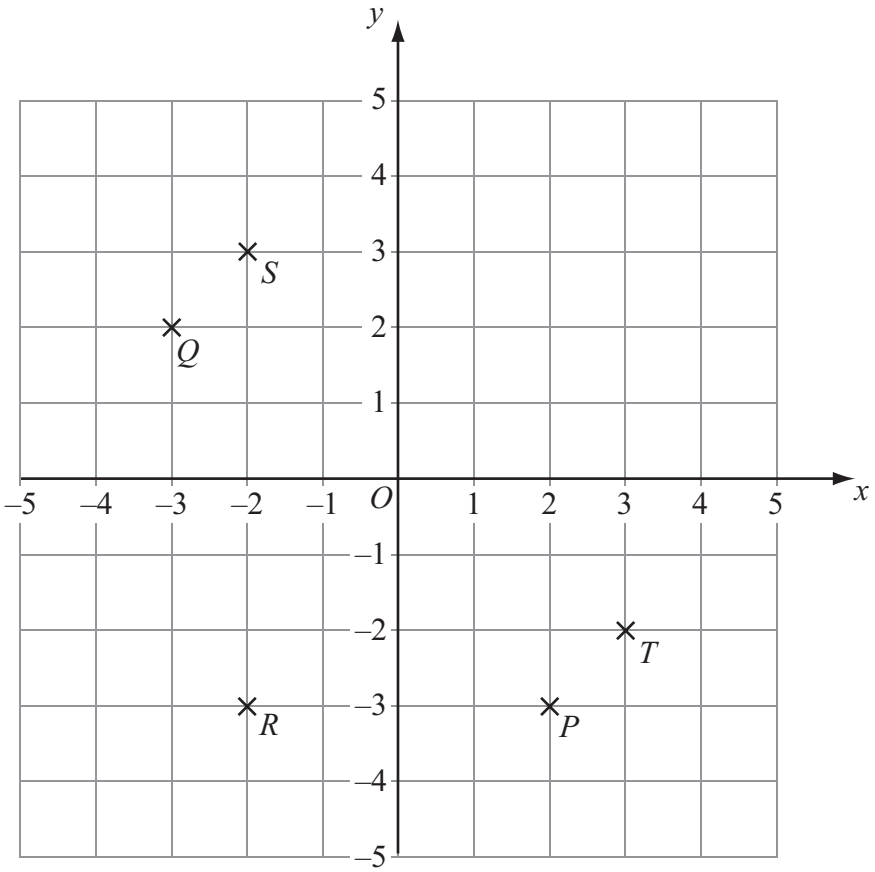
6. A bottle of orange juice costs 49p.

Which is the best estimate of the total cost of 36 of these bottles?

£1764	£200	£2000	£85	£20
A	**B**	**C**	**D**	**E**

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7.



Which one of the points has coordinates (2, –3)?

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

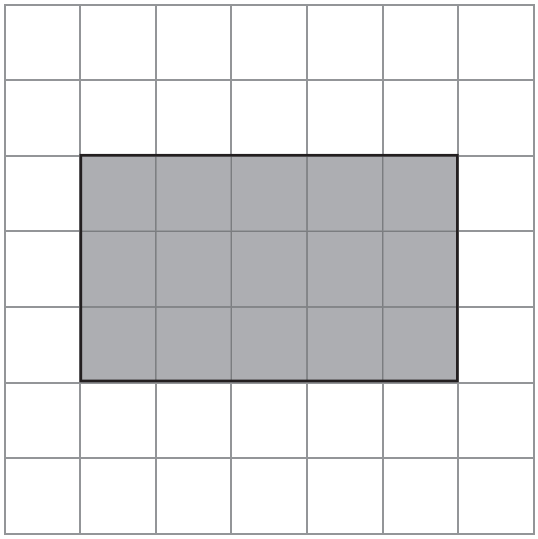
---

8. Which number is a factor of 15?

2	3	6	30	150
A	**B**	**C**	**D**	**E**

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9. Here is a shaded rectangle drawn on a centimetre grid.



The perimeter of the shaded rectangle is

14 cm	15 cm	16 cm	8 cm	20 cm
A	**B**	**C**	**D**	**E**

---

10. 6.5 – 3.37 =

3.13	3.27	3.17	3.38	2.83
A	**B**	**C**	**D**	**E**

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11. One of these statements about a rectangle is **not** true.
Which one?



Opposite sides are parallel.

A

The diagonals are the same length.

B

All four angles are 90°.

C

Opposite sides are equal.

D

The diagonals cross at right angles.

E

---

12. When changed into a decimal, one of these fractions gives a recurring decimal.
Which fraction?

$\frac{1}{4}$ **A**

$\frac{1}{5}$ **B**

$\frac{1}{3}$ **C**

$\frac{1}{10}$ **D**

$\frac{1}{2}$ **E**

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13. The first three numbers in a sequence are 1 3 7

To find the next number

multiply the last number by 2 then add 1

What is the next number in the sequence?

11	13	15	30	31
A	**B**	**C**	**D**	**E**

---

14. Sandwiches cost £1.49 each.
Drinks cost 72p each.

What is the total cost of 1 sandwich and 2 drinks?

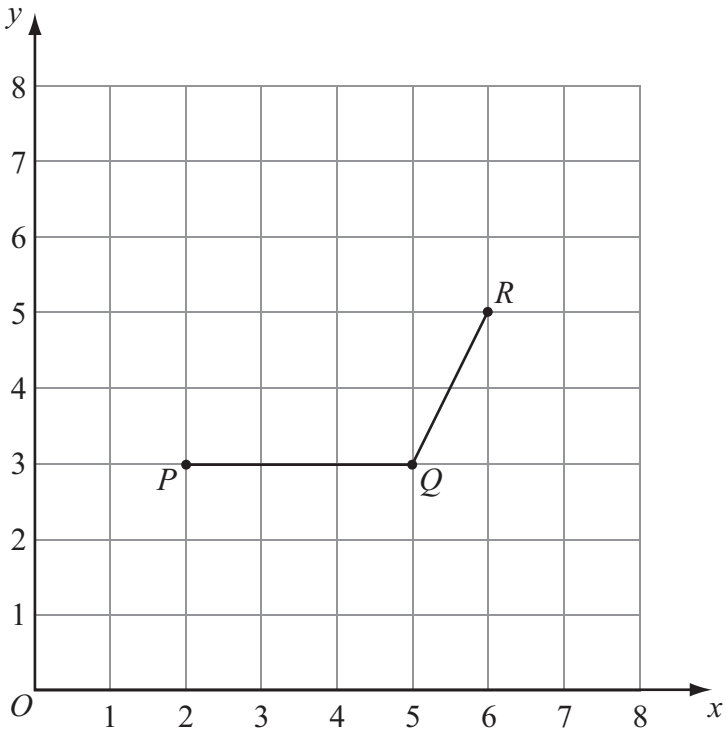
£1.44	£2.21	£2.70	£2.93	£3.70
A	**B**	**C**	**D**	**E**

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15. How many centimetres are there in 25 metres?

250 centimetres	2500 centimetres	25 000 centimetres	250 000 centimetres	250 000 000 centimetres
A	**B**	**C**	**D**	**E**

16.



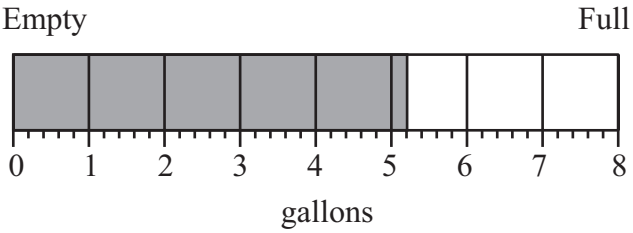
P (2, 3), Q (5, 3) and R (6, 5) are three vertices of a parallelogram.
S is the fourth vertex.

What are the coordinates of S?

(2, 5)	(3, 5)	(5, 2)	(5, 3)	(1, 5)
A	**B**	**C**	**D**	**E**

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17. The diagram shows the scale on a fuel tank.

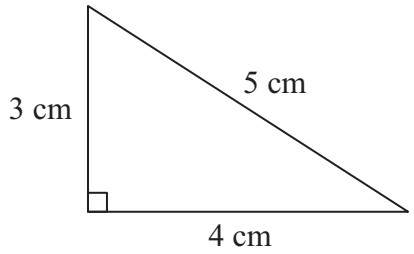


Roger is going to fill the fuel tank completely.
How much more fuel does he need?

2.8 gallons	2.9 gallons	5.2 gallons	5.1 gallons	3.2 gallons
A	**B**	**C**	**D**	**E**

18.

Diagram **NOT** accurately drawn



What is the area of the triangle?

6 cm^2	12 cm^2	15 cm^2	20 cm^2	60 cm^2
A	**B**	**C**	**D**	**E**

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19.

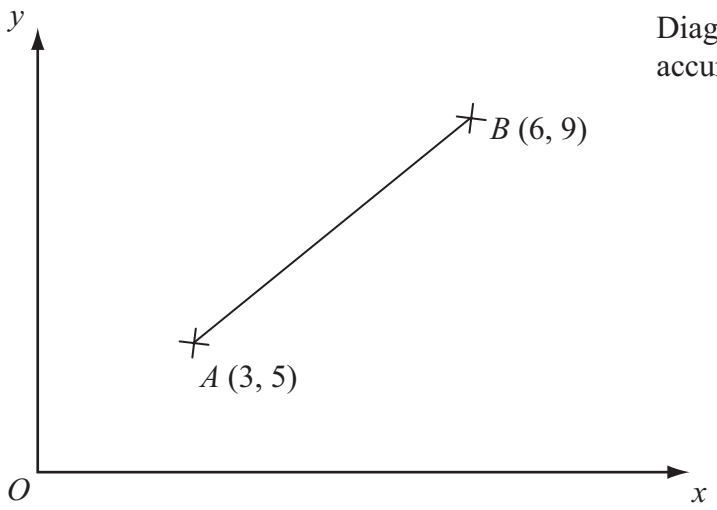


Diagram **NOT** accurately drawn

M is the midpoint of the line *AB*.

What are the coordinates of *M*?

(9, 7)	(1.5, 2)	(3, 4)	(9, 14)	(4.5, 7)
A	**B**	**C**	**D**	**E**

---

20. Sam buys x pencils at 12p each and y pens at 20p each.

What is the expression for the total cost in pence?

$x + y$	$12x + y$	$12x20y$	$12x = 20y$	$12x + 20y$
A	**B**	**C**	**D**	**E**

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21. Here are the first four terms of a sequence.

1 4 9 16

The sixth term of this sequence is

23	25	30	32	36
A	**B**	**C**	**D**	**E**

---

22. $2\frac{3}{4} =$

$\frac{23}{4}$	$\frac{7}{4}$	$\frac{11}{4}$	$\frac{10}{4}$	$\frac{5}{4}$
A	**B**	**C**	**D**	**E**

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23. Here are the first 5 terms of an arithmetic sequence.

–3	7	17	27	37

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

$n + 10$	$10n - 3$	$10n - 13$	$-3n + 10$	$n = n + 10$
A	**B**	**C**	**D**	**E**

---

24. $6.4 \div 0.2 =$

0.32	3.2	12.8	32	128
A	**B**	**C**	**D**	**E**

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25.

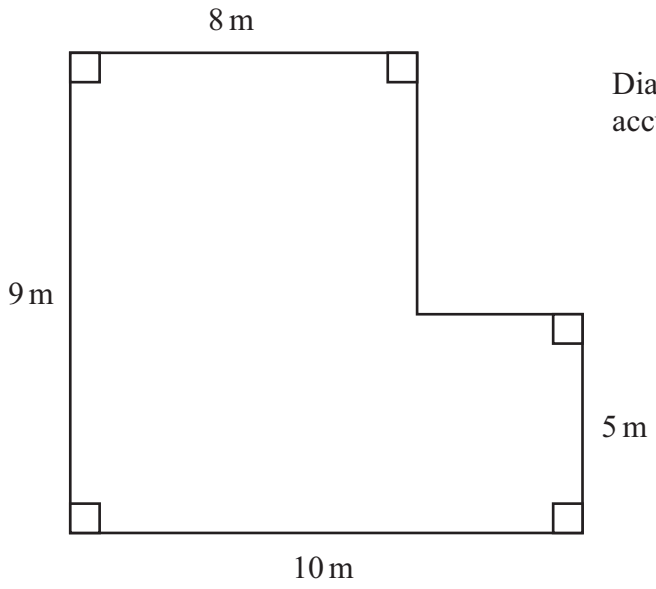


Diagram **NOT** accurately drawn

The area of this shape is

32 m^2	122 m^2	82 m^2	97 m^2	38 m^2
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

END

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Mark Scheme (Results)

March 2010

GCSE

GCSE Mathematics (Modular) - 2381
Paper: 5382F/07

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March 2010

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March 2010 Unit 2 stage 1 paper 5382F-07 Mark scheme

1	2	3	4	5	6	7	8	9	10
D	D	B	A	A	E	A	B	C	A

11	12	13	14	15	16	17	18	19	20
E	C	C	D	B	B	A	A	E	E

21	22	23	24	25
E	C	C	D	C

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Surname	Initial(s)
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Paper Reference(s)

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Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Friday 13 November 2009 – Afternoon

Time: 30 minutes

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

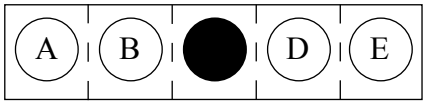
Items included with question papers
Nil

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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 16 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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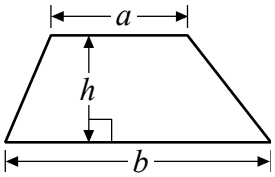
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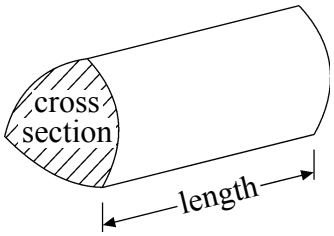
Formulae: Foundation Tier

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



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Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. What is 6890 when rounded to the nearest hundred?

6800	7900	6900	7090	7000
A	**B**	**C**	**D**	**E**

---

2. Here are the first four terms of a number sequence.

4 7 10 13

What is the next term of the sequence?

14	16	18	15	17
A	**B**	**C**	**D**	**E**

---

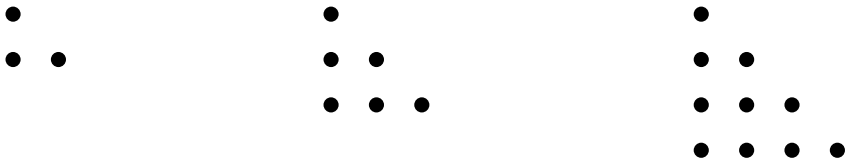
3. 500 – 237 =

263	363	273	373	337
A	**B**	**C**	**D**	**E**

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4. Here are some patterns made from dots.

Pattern 1 Pattern 2 Pattern 3

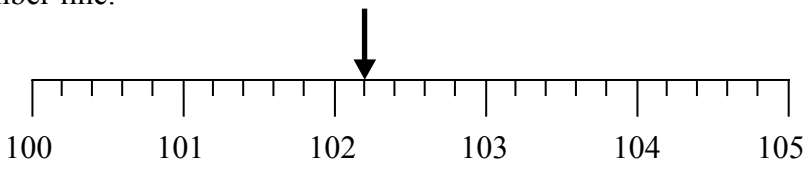


What is the number of dots in Pattern 4?

14	18	17	15	16
A	**B**	**C**	**D**	**E**

---

5. Look at the number line.



What number is shown by the arrow?

102.1	102.25	102.4	102.3	102.2
A	**B**	**C**	**D**	**E**

---

6. Which of these numbers is a multiple of 9?

19	15	6	45	3
A	**B**	**C**	**D**	**E**

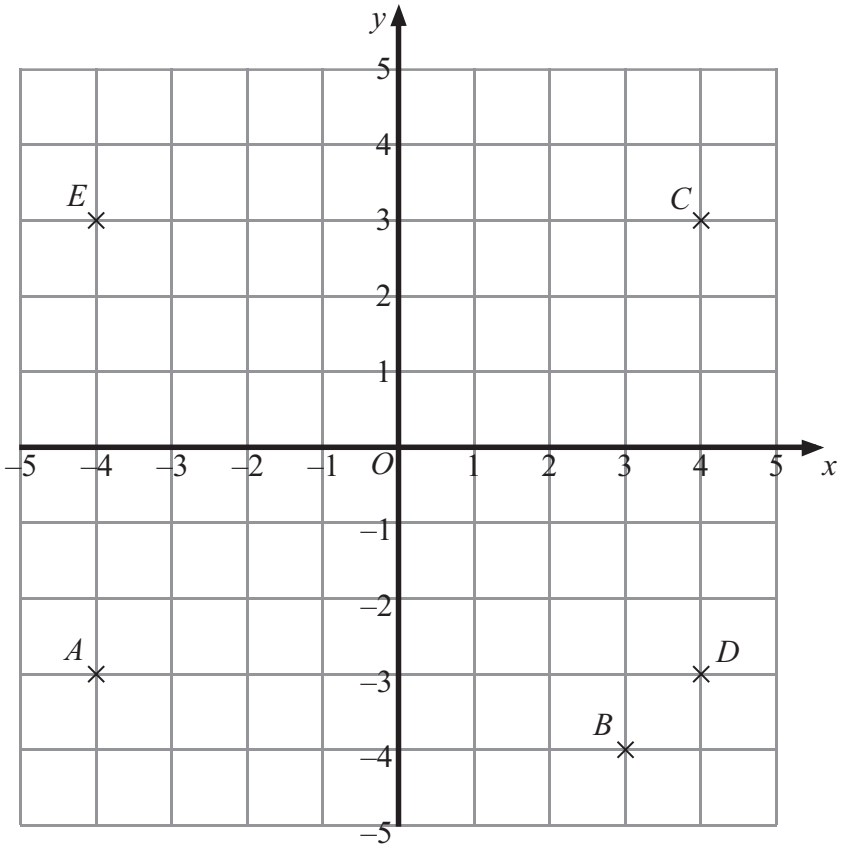
---

7. What is 9 metres in centimetres?

90 cm	9000 cm	0.09 cm	900 cm	0.9 cm
A	**B**	**C**	**D**	**E**

---

8. The points A, B, C, D and E are shown on a grid.



Which point has coordinates (–4, 3)?

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

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9. $-7 + -2 =$

9	–5	–9	–14	5
A	**B**	**C**	**D**	**E**

---

10. Here is a rectangle.

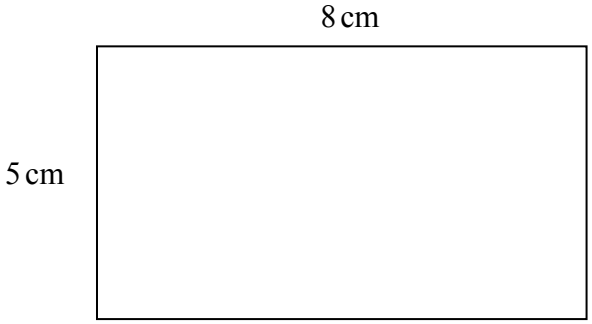


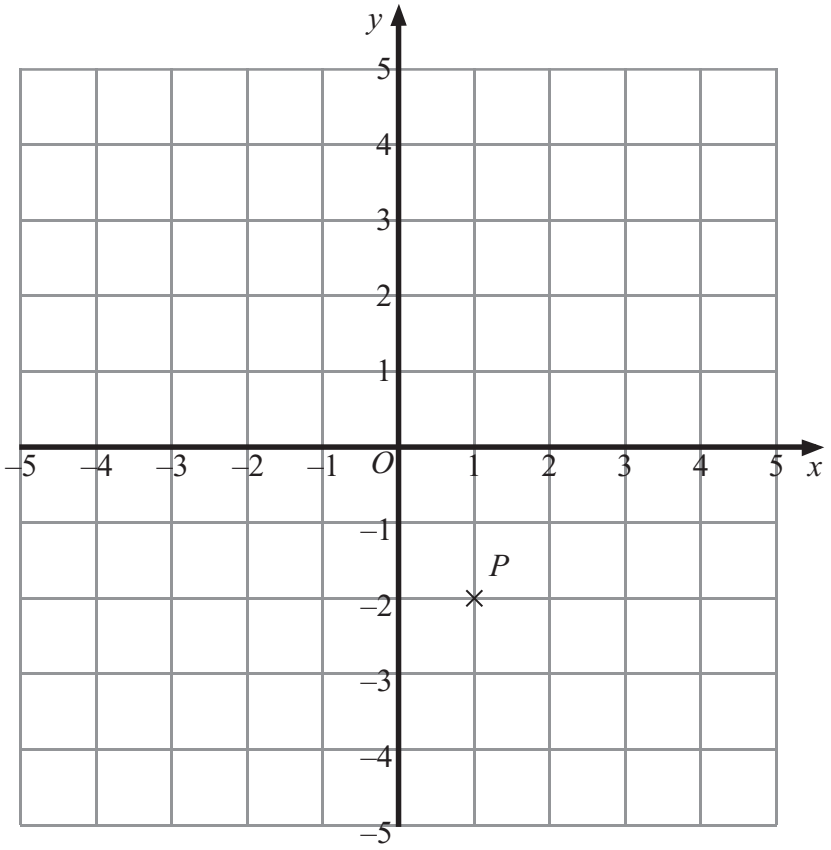
Diagram **NOT** accurately drawn

What is the perimeter of the rectangle?

18 cm	13 cm	21 cm	26 cm	40 cm
A	**B**	**C**	**D**	**E**

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11. The point P is shown on a grid.



What are the coordinates of the point P?

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

---

12. What is $\frac{1}{5}$ when written as a decimal?

0.15	0.2	1.5	0.25	0.02
A	**B**	**C**	**D**	**E**

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13.

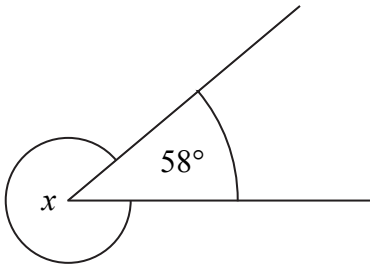


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

112°	302°	122°	238°	312°
A	**B**	**C**	**D**	**E**

---

14. $-3 \times -5 =$

–8	15	8	–15	–2
A	**B**	**C**	**D**	**E**

---

15. Here are the first four terms in a sequence of numbers.

9 16 25 36

What is the next term in the sequence?

52	64	40	49	45
A	**B**	**C**	**D**	**E**

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16. What is 0.32 when written as a fraction?

$\frac{2}{3}$	$\frac{3}{2}$	$\frac{32}{1000}$	$\frac{32}{10}$	$\frac{32}{100}$
A	**B**	**C**	**D**	**E**

---

17. Here is a parallelogram.

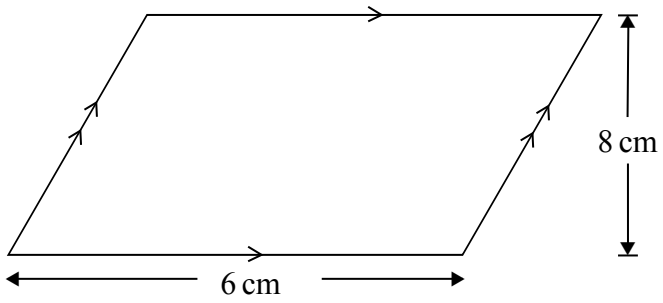


Diagram **NOT** accurately drawn

What is the area of the parallelogram?

$21\,cm^2$	$14\,cm^2$	$24\,cm^2$	$28\,cm^2$	$48\,cm^2$
A	**B**	**C**	**D**	**E**

---

18. The number 37.68 correct to 1 significant figure is

40	38	37.7	4	30
A	**B**	**C**	**D**	**E**

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19. Here is an isosceles triangle.

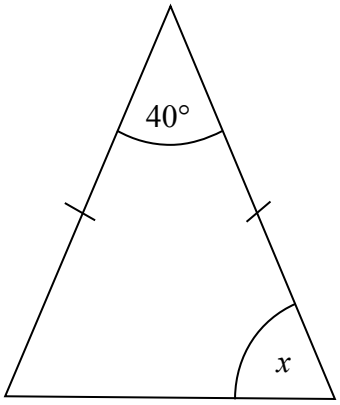


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

50°	60°	40°	80°	70°
A	**B**	**C**	**D**	**E**

---

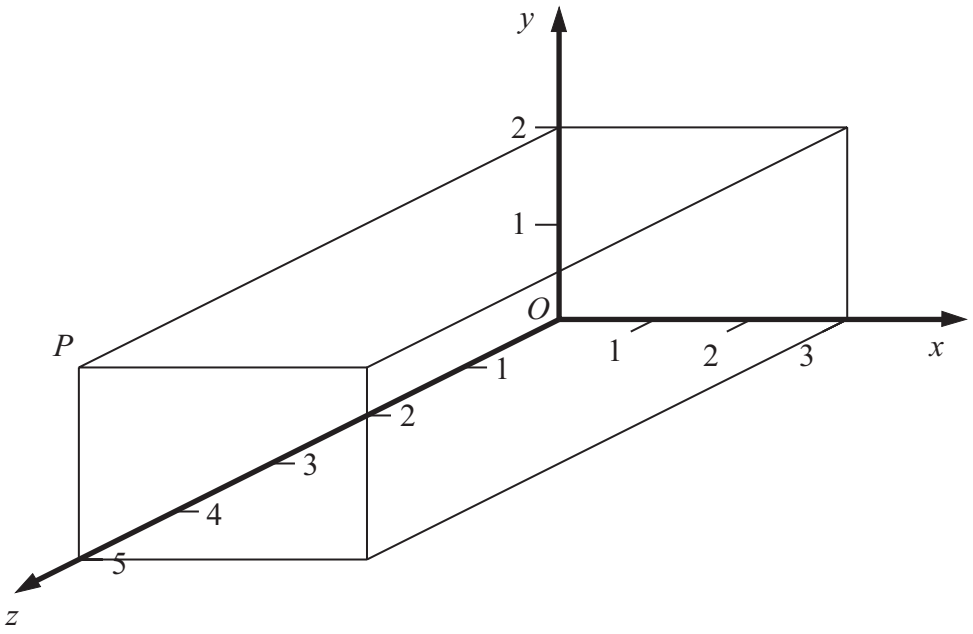
20. Paul buys some stamps.
The cost of each stamp is 25p.
The total cost of the stamps is £14

How many stamps does Paul buy?

46	64	58	54	56
A	**B**	**C**	**D**	**E**

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



What are the coordinates of the point P?

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

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22. Here is a triangle.

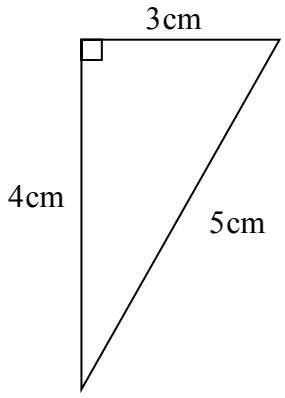


Diagram **NOT** accurately drawn

What is the area of the triangle?

$7.5\,cm^2$	$10\,cm^2$	$12\,cm^2$	$6\,cm^2$	$30\,cm^2$
A	**B**	**C**	**D**	**E**

---

23. Which is the best estimate for the value of $\frac{6.1\times9.6}{19.6}$?

5	2.5	30	4	3
A	**B**	**C**	**D**	**E**

---

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

7 11 15 19 23

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

$n+4$	$7n+4$	$4n-1$	$4n+3$	$4n$
A	**B**	**C**	**D**	**E**

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25. The coordinates of the point A are $(-3, 9)$.

The coordinates of the point B are $(5, 1)$.

M is the midpoint of the line AB.

What are the coordinates of the point M?

$(2, 8)$	$(1, 5)$	$(2, 5)$	$(4, 5)$	$(1, 4)$
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

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GCSE

GCSE Mathematics (Modular) - 2381
Paper: 5382F/07

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November 2009

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SPECIFICATION: 2381 (MODULAR FOUNDATION)

UNIT 2 STAGE 1 5382F PAPER 07

Question	1	2	3	4	5	6	7	8	9	10
Answer	C	B	A	D	E	D	D	E	C	D
Question	11	12	13	14	15	16	17	18	19	20
Answer	A	B	B	B	D	E	E	A	E	E
Question	21	22	23	24	25					
Answer	E	D	E	D	B					

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Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)



Foundation Tier

Unit 2 Stage 1

Thursday 11 June 2009 – Afternoon

Time: 30 minutes

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

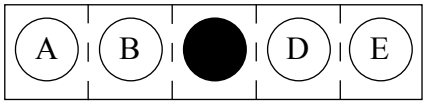
Items included with question papers
Nil

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Before the test begins:
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How to answer the test:
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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 8 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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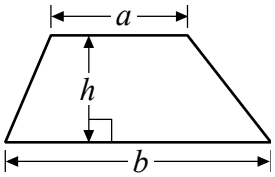
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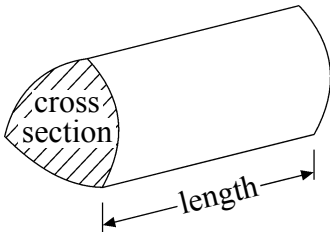
Formulae: Foundation Tier

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



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Answer ALL TWENTY FIVE questions using the answer sheet.

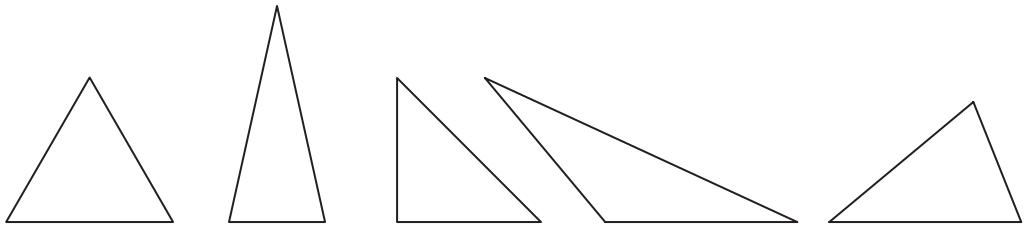
You must NOT use a calculator.

1. What is the number four thousand eight hundred and six written in figures?

4806	4086	486	40 086	40 806
A	**B**	**C**	**D**	**E**

---

2. Which triangle is an equilateral triangle?



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

---

3. Here is a list of numbers.

84 32 162 85 60

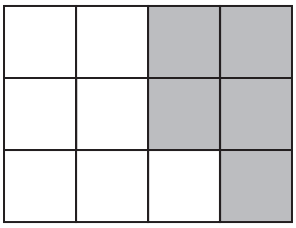
Ben is going to write the numbers in order of size.
He writes the smallest number first.

What number should he write next?

84	32	162	85	60
A	**B**	**C**	**D**	**E**

---

4. What fraction of the shape is shaded?



$\frac{1}{5}$	5	$\frac{5}{12}$	$\frac{5}{7}$	$\frac{7}{12}$
A	**B**	**C**	**D**	**E**

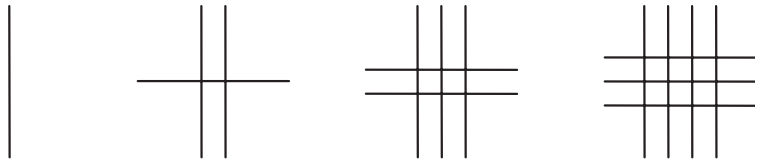
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5. 106 – 38 =

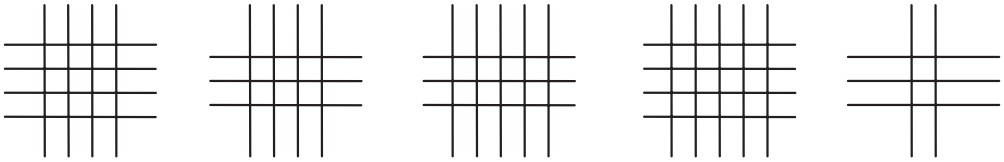
62	72	68	78	66
A	**B**	**C**	**D**	**E**

---

6. Here is a sequence of patterns made of sticks.



What is the next pattern in the sequence?



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

---

7. Here are the first 4 terms of a sequence.

1 3 7 15

The rule for this sequence is

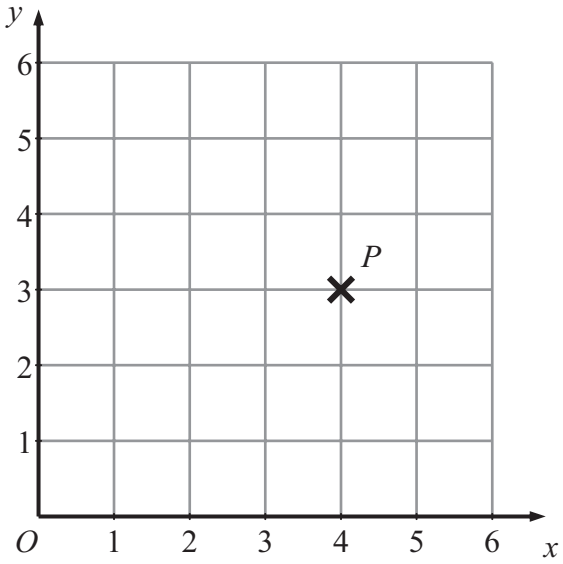
> To get the next term,
>
> multiply the last term by 2
>
> and add 1

What is the next term after 15?

23	31	30	16	32
A	**B**	**C**	**D**	**E**

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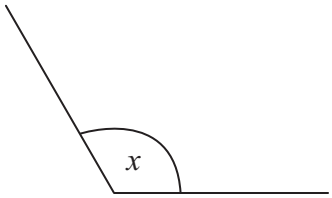
8.



The coordinates of the point P are

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

9.



An estimate of the size of the angle x is

60°	120°	180°	210°	330°
A	**B**	**C**	**D**	**E**

---

10. Which fraction is equal to 1.17?

$\frac{117}{1}$	$\frac{117}{10}$	$\frac{117}{100}$	$\frac{117}{1000}$	$\frac{117}{10000}$
A	**B**	**C**	**D**	**E**

---

11. What is 1.5 kilograms in grams?

15 grams	150 grams	1.500 grams	1500 grams	1050 grams
A	**B**	**C**	**D**	**E**

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12. Bill buys a cup of coffee and a sandwich.

The cup of coffee costs 95p.
The sandwich costs £1.49

What is the total cost?

£96.49	£2.49	£2.54	£2.44	£10.99
A	**B**	**C**	**D**	**E**

---

13. Here is a list of numbers.

1.2 1.02 1.22 2.1 2.01

What is the smallest number in the list?

1.2	1.02	1.22	2.1	2.01
A	**B**	**C**	**D**	**E**

---

14. Here are the first 5 terms of a sequence.

1 4 9 16 25

What is the 8th term of the sequence?

32	56	64	60	81
A	**B**	**C**	**D**	**E**

---

15. $63 \times 1 + 63 \times 9 =$

630	810	3060	801	815
A	**B**	**C**	**D**	**E**

---

16. Which number is a factor of 28?

9	7	27	56	280
A	**B**	**C**	**D**	**E**

---

17. Here is a rectangle.

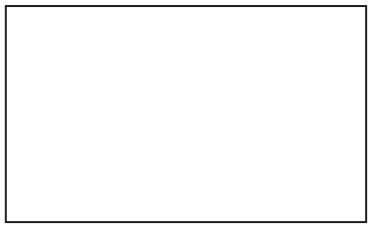


Diagram **NOT** accurately drawn

What is the area of the rectangle?

$10\,cm^2$	$20\,cm^2$	$24\,cm^2$	$12\,cm^2$	$52\,cm^2$
A	**B**	**C**	**D**	**E**

---

18. Which quadrilateral has exactly one pair of parallel sides?

Parallelogram	Rectangle	Kite	Trapezium	Rhombus
A	**B**	**C**	**D**	**E**

---

19. The nth term of a sequence is $3n + 5$

What is the 6th term of the sequence?

5	14	41	23	33
A	**B**	**C**	**D**	**E**

---

20. What are the coordinates of the midpoint of the line joining $P(3, 4)$ to $Q(5, 8)$?

(2, 4)	(8, 12)	$\left(3\frac{1}{2}, 4\frac{1}{2}\right)$	(4, 6)	(4, 12)
A	**B**	**C**	**D**	**E**

---

21. Pens cost 10p each. Pencils cost 12p each.

What is an expression for the total cost, in pence, of x pens and y pencils?

$x + y$	$x = 10 + y = 12$	$12x + 10y$	$(10 + 12)xy$	$10x + 12y$
A	**B**	**C**	**D**	**E**

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22. Here are the first 5 terms of an arithmetic sequence.

3 7 11 15 19

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

$n + 4$	$3n + 4$	$4n + 3$	$4n - 1$	$4n$
A	**B**	**C**	**D**	**E**

---

23. What is 72 written as a product of its prime factors?

8×9	$1 \times 2 \times 2 \times 2 \times 3 \times 3$	$2 \times 4 \times 9$	$2 + 2 + 2 + 3 + 3$	$2 \times 2 \times 2 \times 3 \times 3$
A	**B**	**C**	**D**	**E**

---

24. $0.64 \div 0.2 =$

3.2	0.032	0.32	12.8	1.28
A	**B**	**C**	**D**	**E**

25.

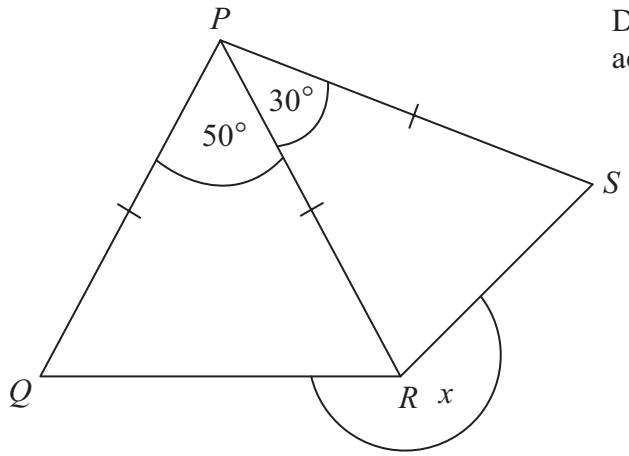


Diagram **NOT** accurately drawn

Triangle PQR and triangle PRS are both isosceles.
$PQ = PR = PS$.
Angle $QPR = 50°$.
Angle $RPS = 30°$.

What is the size of the angle x?

230°	220°	260°	250°	210°
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

END

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UNIT 2 STAGE 1 5382F PAPER 07

Question	1	2	3	4	5	6	7	8	9	10
Answer	A	A	E	C	C	D	B	C	B	C
Question	11	12	13	14	15	16	17	18	19	20
Answer	D	D	B	C	A	B	C	D	D	D
Question	21	22	23	24	25					
Answer	E	D	E	A	B					

UNIT 2 STAGE 1 5382H PAPER 08

Question	1	2	3	4	5	6	7	8	9	10
Answer	D	E	E	A	D	B	E	A	D	A
Question	11	12	13	14	15	16	17	18	19	20
Answer	E	B	D	A	A	E	A	E	D	B
Question	21	22	23	24	25					
Answer	E	A	A	E	E					

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Signature	

Paper Reference(s)

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Edexcel GCSE

Mathematics (Modular) – 2381

Paper 7 (Non-Calculator)

Foundation Tier



Unit 2 Stage 1

Tuesday 3 March 2009 – Afternoon

Time: 30 minutes

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

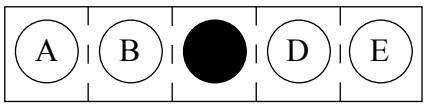
Items included with question papers
Nil

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.

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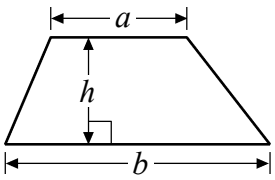
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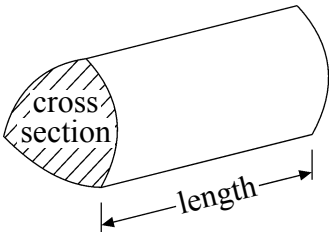
Formulae: Foundation Tier

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



Volume of prism = area of cross section × length



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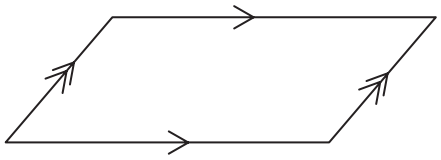
Answer ALL TWENTY FIVE questions using the answer sheet.

You must NOT use a calculator.

1. What is the value of the **6** in the number 36 825 ?

600	60	6	6000	60 000
A	**B**	**C**	**D**	**E**

2.



What is the special name for this quadrilateral?

rectangle	parallelogram	rhombus	kite	trapezium
A	**B**	**C**	**D**	**E**

---

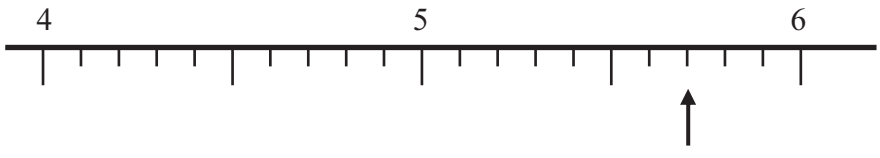
3. Here are the first four terms of a number sequence.

7 11 15 19

What is the next term of the sequence?

20	24	21	23	22
A	**B**	**C**	**D**	**E**

4.

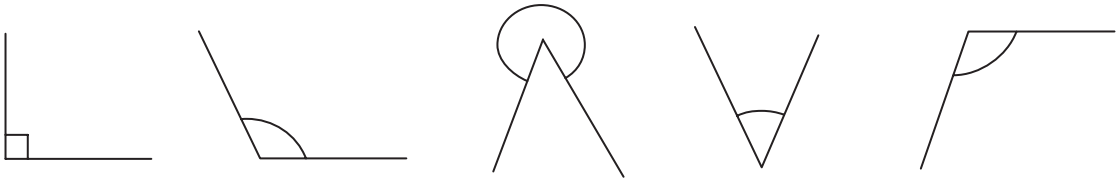


Which number is marked with the arrow?

5.07	6.3	5.7	5.2	57
A	**B**	**C**	**D**	**E**

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5. Which of the marked angles is an acute angle?



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

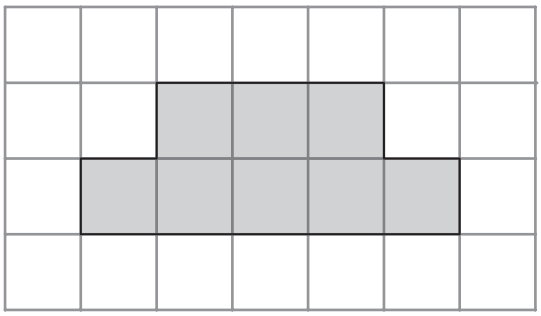
---

6. Which number is a factor of 15?

30	5	10	2	20
A	**B**	**C**	**D**	**E**

---

7. A shaded shape has been drawn on the centimetre grid.



What is the perimeter of the shaded shape?

15 cm	20 cm	14 cm	8 cm	12 cm
A	**B**	**C**	**D**	**E**

---

8. Which number is the smallest?

7.128	7.4	7.32	7.18	7.09
A	**B**	**C**	**D**	**E**

---

9. Oranges cost 24p each.

Raja buys 5 of the oranges.
He pays with a £5 note.

How much change should he get?

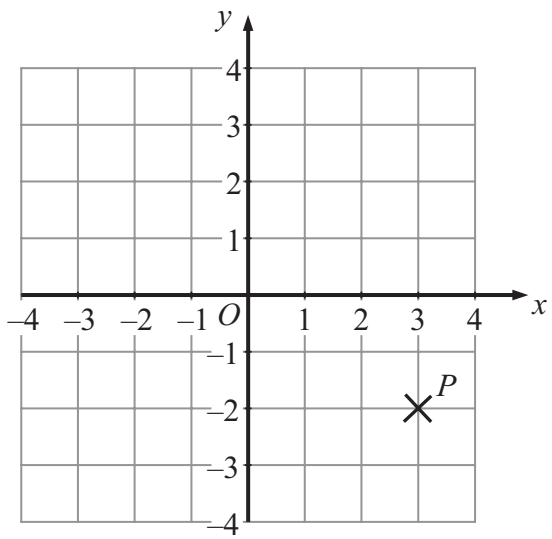
£3.80	£4.20	£1.20	£2.80	£4.76
A	**B**	**C**	**D**	**E**

---

10. What is 5 squared?

30	10	20	25	15
A	**B**	**C**	**D**	**E**

11.



What are the coordinates of the point P?

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

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12. At 8 am, the temperature was –2°C.
At midday, the temperature was 6°C higher.

What was the temperature at midday?

–8°C	4°C	6°C	2°C	8°C
A	**B**	**C**	**D**	**E**

13.

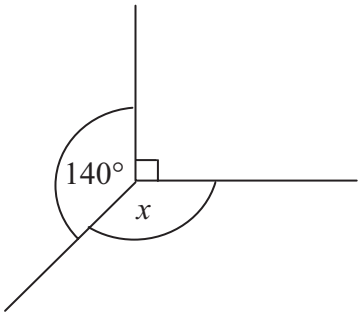


Diagram **NOT** accurately drawn

What is the size of the angle marked x?

140°	130°	40°	150°	220°
A	**B**	**C**	**D**	**E**

---

14. $20 - (4 + 10) =$

6	–6	26	14	–34
A	**B**	**C**	**D**	**E**

---

15. Here is a sequence of numbers.

10 7 8 5 6

What is the next number in the sequence?

5	2	3	1	4
A	**B**	**C**	**D**	**E**

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16. Here is a list of numbers.

$0.4 \qquad \frac{1}{3} \qquad \frac{1}{4} \qquad \frac{1}{2} \qquad 0.3$

Sally is going to write the numbers in order of size.
She writes the smallest number first.

Which number should she write next?

0.4	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{2}$	0.3
A	**B**	**C**	**D**	**E**

---

17. A train leaves London at 16 53
It arrives in Peterborough at 18 22

How long does the journey take?

1 hour 29 minutes	2 hours 31 minutes	2 hours 9 minutes	2 hours 29 minutes	1 hour 31 minutes
A	**B**	**C**	**D**	**E**

---

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

5 9 13 17 21

What is the 15 th term of this sequence?

57	65	61	63	60
A	**B**	**C**	**D**	**E**

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19.



Diagram **NOT** accurately drawn

The diagram shows the plan of a rectangular floor.

Ann is going to cover the floor with carpet.
The carpet costs £15 per square metre.

What is the total cost of the carpet?

£150	£270	£200	£135	£300
A	**B**	**C**	**D**	**E**

20.

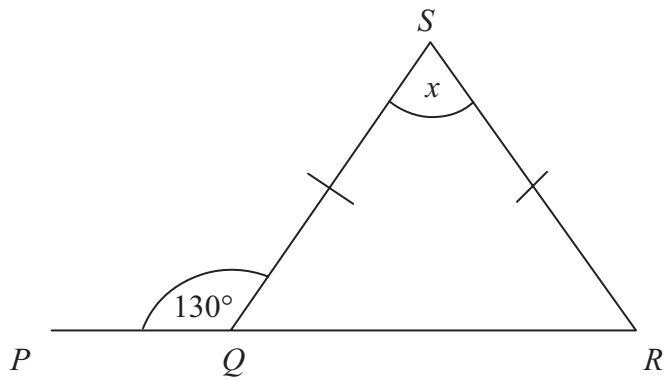


Diagram **NOT** accurately drawn

PQR is a straight line.
SQ = *SR*.

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

50°	130°	70°	80°	60°
A	**B**	**C**	**D**	**E**

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21. Given that $47 \times 81.6 = 3835.2$

What is the value of 0.47×816?

383.52	38 352	38.352	3835.2	3.8352
A	**B**	**C**	**D**	**E**

22.

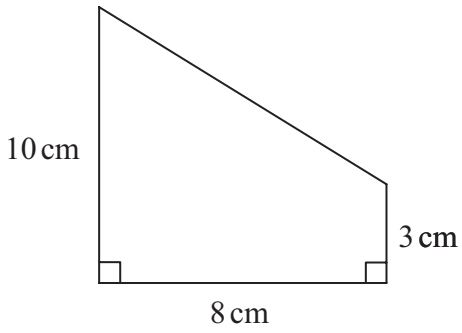


Diagram **NOT** accurately drawn

What is the area of this shape?

21 cm^2	52 cm^2	104 cm^2	80 cm^2	240 cm^2
A	**B**	**C**	**D**	**E**

23.

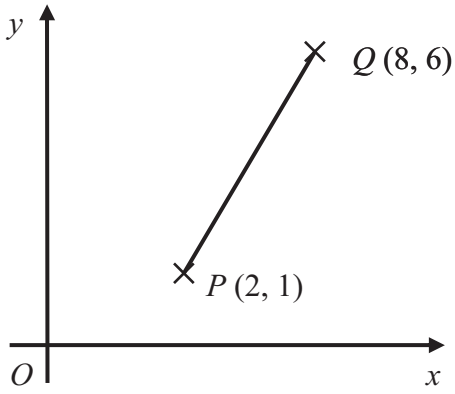


Diagram **NOT** accurately drawn

P is the point (2, 1).
Q is the point (8, 6).

Which are the coordinates of the midpoint of PQ?

(4, 3)	(4, $3\frac{1}{2}$)	(5, $3\frac{1}{2}$)	(5, $2\frac{1}{2}$)	(3, $2\frac{1}{2}$)
A	**B**	**C**	**D**	**E**

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24. What is the Lowest Common Multiple (LCM) of 24 and 60?

2	120	12	1440	240
A	**B**	**C**	**D**	**E**

---

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

3 8 13 18 23

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

$n + 5$	$5n$	$5n + 3$	$3n - 2$	$5n - 2$
A	**B**	**C**	**D**	**E**

TOTAL FOR PAPER: 25 MARKS

END

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UNIT 2 STAGE 1 5382F 07

Question	1	2	3	4	5	6	7	8	9	10
Answer	D	B	D	C	D	B	C	E	A	D
Question	11	12	13	14	15	16	17	18	19	20
Answer	C	B	B	A	C	E	A	C	E	D
Question	21	22	23	24	25					
Answer	A	B	C	B	E					

UNIT 2 STAGE 1 5382H 08

Question	1	2	3	4	5	6	7	8	9	10
Answer	A	E	B	C	C	B	E	C	D	B
Question	11	12	13	14	15	16	17	18	19	20
Answer	C	E	D	C	E	A	E	B	D	A
Question	21	22	23	24	25					
Answer	D	A	B	D	C					

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