

Centre No.						Paper Reference					Surname	Initial(s)			
Candidate No.						5	5	4	2	F	/	7	F	Signature	

Paper Reference(s)

5542F/7F

Edexcel GCSE

Mathematics

Unit 2 Stage 1

Foundation Tier



Specimen Paper

Time: 30 minutes

Examiner's use only

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Team Leader's use only

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Materials required for examination

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.
Tracing paper may be used.

Items included with question papers

Nil

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. The questions must be answered by marking the response **■**.

If you change your mind about an answer, put a cross through the response **✗** and then indicate your new answer by marking the response **■**.

You must NOT write on the formulae page. Anything you write on the formulae page will gain NO credit.

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.

Calculators must not be used.

Advice to Candidates

Show all stages in any calculations.

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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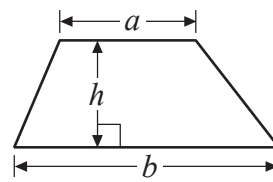
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GCSE Mathematics

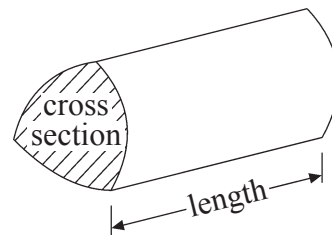
Formulae: Foundation Tier

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

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



Volume of prism = area of cross section \times length



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Answer ALL TWENTY FIVE questions.

You must NOT use a calculator.

1. A café had 23578 customers last year.

Round the number 23578 to the nearest ten.

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 23 572 | 23 570 | 23 580 | 23 500 | 23 600 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |

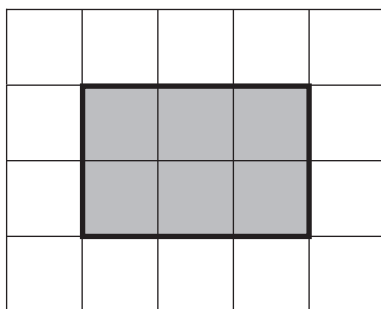
2. Here is a sequence of numbers.

5 9 13 17

Find the next number in the sequence.

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 18 | 19 | 20 | 21 | 22 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |

3. Look at the shaded rectangle on the centimetre grid below.



What is the area of the shaded rectangle?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 3 cm ² | 5 cm ² | 6 cm ² | 10 cm ² | 12 cm ² |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |

4. Martin bought a calculator for £5.75 and a pencil case for £1.45

Work out his total bill.

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| £6.10 | £6.20 | £6.30 | £6.15 | £7.20 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |



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5. What is the 7th odd number?

7
A

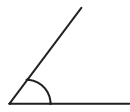
9
B

11
C

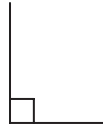
13
D

15
E

6. Which of these is an obtuse angle?



A



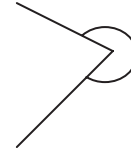
B



C



D



E

7. Which of these numbers is equivalent to $\frac{3}{4}$?

0.7

A

$\frac{9}{12}$

B

$\frac{2}{3}$

C

0.12

D

$\frac{7}{8}$

E

8. Sam buys a bus ticket for £1.25 and a train ticket for £14.80
She pays with a £20 note.

How much change should she receive?

£4.95

A

£16.05

B

£4.05

C

£3.95

D

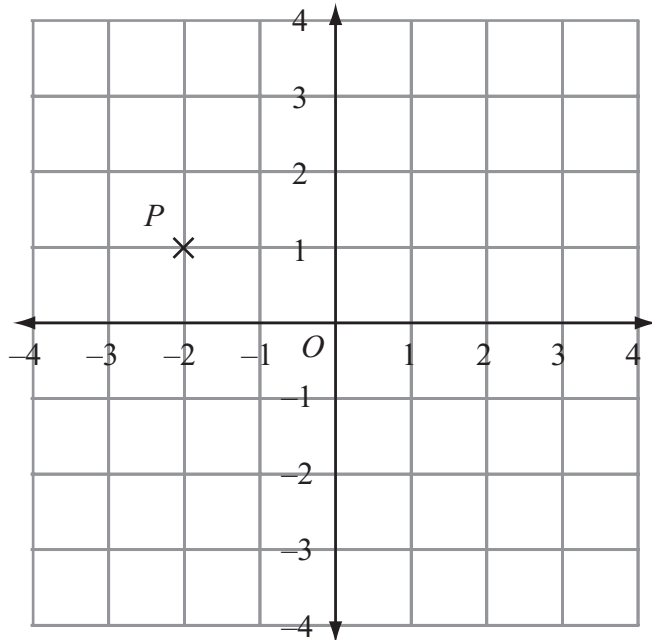
£18.75

E



Leave blank

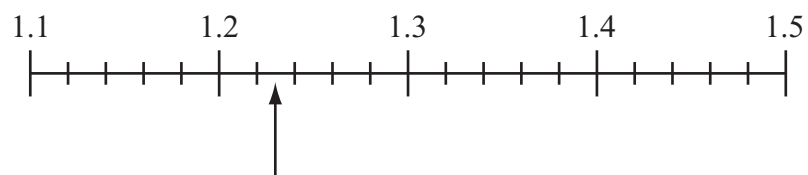
9.



What are the coordinates of P?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| $(-2,1)$ | $(1,-2)$ | $(-1,-2)$ | $(-1,2)$ | $(2,-1)$ |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |

10. Look at the number line below.



What is the number indicated by the arrow?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 1.2 | 1.21 | 1.22 | 1.23 | 1.25 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |

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

7 10 13 16 19

What is the 10th term in this sequence?

- | | | | | |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| 25 | 30 | 31 | 34 | 37 |
| <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| A | B | C | D | E |



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12.

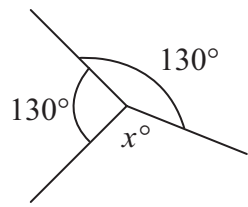


Diagram **NOT** accurately drawn

What is the size of the angle marked x ?

30°
=

A

90°
=

B

100°
=

C

130°
=

D

360°
=

E

13. There are 48 packets of crisps in each box of crisps.
Work out the total number of packets of crisps in 234 boxes.

2808
=

A

10000
=

B

11196
=

C

11232
=

D

11238
=

E

14. Here is a list of numbers.

1.232

1.33

1.23

1.323

1.22

The numbers are going to be written in order, smallest number first.
Which of these numbers would be the 4th in the list?

1.232
=

A

1.33
=

B

1.23
=

C

1.323
=

D

1.22
=

E

15. A train leaves Manchester at 07 45 and arrives in London at 10 20.
How long does it take the train to make the journey?

2 hours
25 minutes
=

A

2 hours
35 minutes
=

B

3 hours
15 minutes
=

C

3 hours
25 minutes
=

D

3 hours
35 minutes
=

E



Leave blank

16. Here is a sequence of numbers.

5 10 8 13 11

Work out the next number in this sequence.

$\frac{9}{\underline{\quad}}$ $\frac{11}{\underline{\quad}}$ $\frac{15}{\underline{\quad}}$ $\frac{16}{\underline{\quad}}$ $\frac{18}{\underline{\quad}}$
A **B** **C** **D** **E**

17.

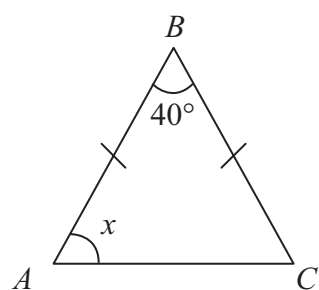


Diagram **NOT** accurately drawn

In the triangle ABC
 $AB = AC$

Work out the size of angle x .

40° 70° 80° 140° 180°
 $\frac{\quad}{\underline{\quad}}$ $\frac{\quad}{\underline{\quad}}$ $\frac{\quad}{\underline{\quad}}$ $\frac{\quad}{\underline{\quad}}$ $\frac{\quad}{\underline{\quad}}$
A **B** **C** **D** **E**

18. Which of these numbers is a prime number?

$\frac{2}{\underline{\quad}}$ $\frac{6}{\underline{\quad}}$ $\frac{9}{\underline{\quad}}$ $\frac{21}{\underline{\quad}}$ $\frac{15}{\underline{\quad}}$
A **B** **C** **D** **E**

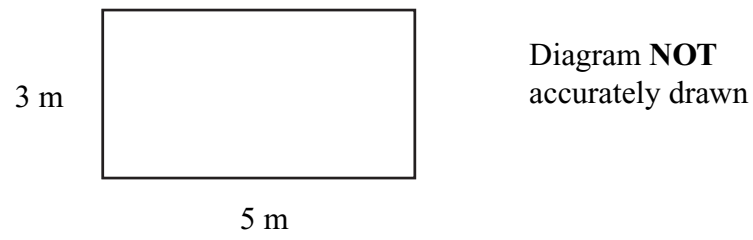
19. Adult cinema tickets cost £3.50
Child cinema tickets cost £2.20
Mr Brown buys some cinema tickets for £14.90
He buys 2 child cinema tickets.

How many adult cinema tickets does he buy?

$\frac{1}{\underline{\quad}}$ $\frac{2}{\underline{\quad}}$ $\frac{3}{\underline{\quad}}$ $\frac{4}{\underline{\quad}}$ $\frac{5}{\underline{\quad}}$
A **B** **C** **D** **E**



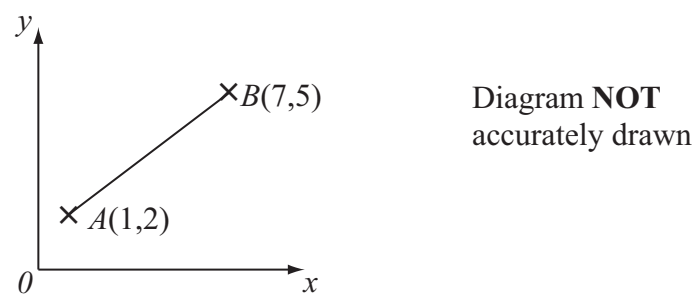
20. The diagram shows a rectangular garden patio.



A gardener has square paving slabs.
 The length of the sides of a slab is 50 cm.
 How many square paving slabs are needed to completely cover the patio?

- | | | | | |
|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| $\frac{15}{\underline{\quad}}$ | $\frac{16}{\underline{\quad}}$ | $\frac{30}{\underline{\quad}}$ | $\frac{40}{\underline{\quad}}$ | $\frac{60}{\underline{\quad}}$ |
| A | B | C | D | E |

21. The sketch shows the coordinates of the endpoints of the line AB .



Work out the coordinates of the midpoint of the line AB .

- | | | | | |
|---------------------|---------------------|--------------------------------|---------------------|---------------------|
| $(4, 3\frac{1}{2})$ | $(3, 3)$ | $(3\frac{1}{2}, 2\frac{1}{2})$ | $(2, 3\frac{1}{2})$ | $(3, 1\frac{1}{2})$ |
| $\underline{\quad}$ | $\underline{\quad}$ | $\underline{\quad}$ | $\underline{\quad}$ | $\underline{\quad}$ |
| A | B | C | D | E |



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22.

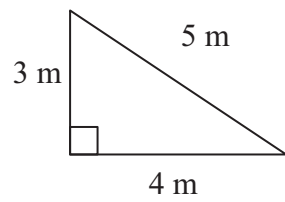


Diagram NOT accurately drawn

Work out the area of this triangle.

6 m^2

□

A

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

□

B

7 m^2

□

C

12 m^2

□

D

60 m^2

□

E

23. Work out $1572 \div 0.3$

5.24

□

A

52.4

□

B

524

□

C

5240

□

D

52400

□

E

24. Here is an arithmetic sequence.

1

4

7

10

13

Work out the expression, in terms of n , for the n th term of the sequence.

$3n + 2$

□

A

$2n - 3$

□

B

$3n$

□

C

$3n - 2$

□

D

$2n$

□

E

25. Work out the Highest Common Factor (HCF) of 30 and 72.

2

□

A

3

□

B

6

□

C

30

□

D

360

□

E

TOTAL FOR PAPER: 25 MARKS

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