Surname

First name(s)

Centre Number Candidate Number

0

GCSE



3300U10-1

MONDAY, 13 NOVEMBER 2023 – MORNING

MATHEMATICS UNIT 1: NON-CALCULATOR FOUNDATION TIER

1 hour 30 minutes

ADDITIONAL MATERIALS

The use of a calculator is not permitted in this examination. A ruler, a protractor and a pair of compasses may be required.

INSTRUCTIONS TO CANDIDATES

Use black ink or black ball-point pen. Do not use gel pen or correction fluid.

You may use a pencil for graphs and diagrams only.

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer all questions.

Write your answers in the spaces provided in this booklet. If you run out of space, use the additional page(s) at the back of the booklet, taking care to number the question(s) correctly.

Take π as 3.14.

INFORMATION FOR CANDIDATES

You should give details of your method of solution when appropriate.

Unless stated, diagrams are not drawn to scale.

Scale drawing solutions will not be acceptable where you are asked to calculate.

The number of marks is given in brackets at the end of each question or part-question.

In question **9**, the assessment will take into account the quality of your linguistic and mathematical organisation, communication and accuracy in writing.



| For Ex | aminer's us | e only |
|----------|-----------------|-----------------|
| Question | Maximum Mark | Mark Awarded |
| 1. | 2 | |
| 2. | 7 | |
| 3. | 2 | |
| 4. | 2 | |
| 5. | 3 | |
| 6. | 3 | |
| 7. | 3 | |
| 8. | 2 | |
| 9. | 5 | |
| 10. | 3 | |
| 11. | 4 | |
| 12. | 3 | |
| 13. | 4 | |
| 14. | 6 | |
| 15. | 3 | |
| 16. | 4 | |
| 17. | 5 | |
| 18. | 4 | |
| Total | 65 | |







| 2. | (a) | Arwyn doubles the number fifty-three thousand. Write Arwyn's answer in figures. | [2] |
|----|-----|---|-----|
| | (b) | Write 3572 correct to the nearest 100. | [1] |
| | (C) | Calculate 6+4×9. | [1] |
| | (d) | Estimate 103×9·8. | [2] |
| | (e) | Can 626 be divided exactly by 3? You must show working to support your answer. Yes No | [1] |
| | | | |
| | | | |
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| (a) Describe the Circle the co | e chance that An orrect expression | na chooses a goat. | | | [1] |
|--------------------------------|---------------------------------------|---------------------|--------|---------|-----|
| impossible | unlikely | an even chance | likely | certain | |
| | e chance that An orrect expression | na chooses a horse. | | | [1] |
| impossible | unlikely | an even chance | likely | certain | |
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Examiner only Solve the following equations. 7. (a) p + 17 = 29(i) [1] (ii) 52 - n = 38[1] How many centimetres are there in 24.8 metres? (b) [1] 8. 147° х Α В Diagram not drawn to scale AB is a straight line. Calculate the size of angle *x*. [2] 0 *x* =









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| 11. | (a) Find the value of $5x + 2y$ when $x = -4$ and $y = 9$. | [2] | Examin only |
|-----|--|-----|----------------|
| | (b) Simplify the expression $5y + 7m - 3y - 10m$. | [2] | |
| 12. | Write 0.41, $\frac{7}{20}$ and 45% in descending order. You must show all your working. | [3] | |
| | Greatest value Smallest value | | |
| | | | |
| | 12 (3300/1/0.1) | | |





| 14. | (a) | Find $\frac{3}{7}$ of 9.17 km. | | Examine only |
|-----|-------|--|-----|-----------------|
| | | Give your answer in metres. | [3] | |
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| | ••••• | | | |
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| | ••••• | | | |
| | | metres | | |
| | (b) | Express 25 minutes as a percentage of 2 hours 5 minutes. | [3] | |
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| 15. | (a) | The mean of four numbers is 9. What is the total of the four numbers? [1 | Examin only |
|-----|-----|--|----------------|
| | (b) | Find a set of four numbers such that: their mean is 9 their mode is 11. Write your four numbers in the boxes below. [2] |] |
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| | 15 | © WJEC CBAC Ltd. (3300U10-1) | |

| (a) A sock is chose Complete the | sen at random fr table below. | rom the drawer. | | | [2] |
|-------------------------------------|----------------------------------|------------------|------|------|---------|
| Colour | Red | Green | Blue | Pink | |
| Probability | 0.3 | 0.1 | | 0.25 | |
| | | · | | | |
| | | | | | |
| | | | | | |
| b) In the drawer, | there are 20 pir | nk socks. | | | |
| How many rec | d socks are there | e in the drawer? | | | 1211 |
| How many red | d socks are ther | e in the drawer? | | | [2] |
| How many red | d socks are ther | e in the drawer? | | | |
| How many red | d socks are ther | e in the drawer? | | | [2] |
| How many red | d socks are ther | e in the drawer? | | | [2] |
| How many rea | d socks are ther | e in the drawer? | | | [2] |
| How many rea | d socks are ther | e in the drawer? | | | [2] |
| How many rea | d socks are ther | e in the drawer? | | | [2] |
| How many rea | d socks are then | e in the drawer? | | | [2] |
| How many rea | d socks are then | e in the drawer? | | | [2] |
| How many rea | d socks are then | e in the drawer? | | | [2] |



| The diagram below | w shows two | shaded sq | luares inside a | larger squar | e. | |
|--|---------------------------------|------------------|-----------------------|--------------|-------------|-----|
| | 16 0 | cm ² | | | | |
| | | | 144 cm ² | | | |
| | | Diagram | at drawn to ac | | | |
| | | Diagram | not drawn to so | ale | | |
| The diagram show | vs the area of | f each of th | ne two shaded | squares. | | |
| | | | | | d | |
| Calculate the tota | I area of the | two region | s that have no | t been snade | a. | |
| Calculate the tota You must show all | I area of the l your working | two region g. | s that have no | t been shade | : 0. | [5] |
| Calculate the tota You must show all | l area of the l your workinູ | two region g. | s that have no | t been shade | :u. | [5] |
| Calculate the tota You must show all | I area of the I your working | two region g. | s that have no | t been shade | :u. | [5] |
| Calculate the tota You must show all | I area of the I your working | two region g. | s that have no | t been shade | :u. | [5] |
| Calculate the tota You must show all | I area of the I your working | two region g. | s that have no | t been shade | :u. | [5] |
| Calculate the tota You must show all | I area of the | two region J. | s that have no | t been shade | :u. | [5] |
| Calculate the tota You must show all | I area of the | two region J. | s that have no | t been shade | | [5] |
| Calculate the tota You must show all | I area of the | two region J. | s that have no | t been snade | | [5] |
| Calculate the tota You must show all | I area of the | two region J. | s that have no | t been shade | | [5] |
| Calculate the tota You must show all | I area of the | two region J. | s that have no | t been shade | | [5] |
| You must show all | l your working | j. | | | | |
| You must show all | l your working | j. | | | | |
| You must show all | l your working | j. | | | | |
| You must show all | l your working | j. | | | | |
| You must show all | l your working | j. | | | | |
| Calculate the tota You must show all | l your working | j. | | | | |
| You must show all | l your working | j. | | | | |
| You must show all | l your working | j. | | | | |



| 18 | |
|--|-----------------|
| 18. There are $7y - 2$ counters in Bag A. There are $4y + 1$ counters in Bag B. | Examine only |
| Bag A $7y-2$ $4y+1$ | |
| 9 counters are added to Bag B. There are now the same number of counters in each bag. | |
| Form an equation in terms of y . Solve the equation to find the value of y . You must show all your working. | [4] |
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| END OF PAPER | |
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| Question number | Additional page, if required. Write the question number(s) in the left-hand margin. | Exar or |
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