

A



**Surname** \_\_\_\_\_

**Forename(s)** \_\_\_\_\_

**Centre Number** \_\_\_\_\_

**Candidate Number** \_\_\_\_\_

**Candidate Signature** \_\_\_\_\_

**I declare this is my own work.**

**Functional Skills Level 2**

**MATHEMATICS**

**Paper 1 Non-Calculator**

**8362/1**

**Thursday 3 November 2022**

**Morning**

**Time allowed: 30 minutes**

**At the top of the page, write your surname and forename(s), your centre number, your candidate number and add your signature.**

**[Turn over]**

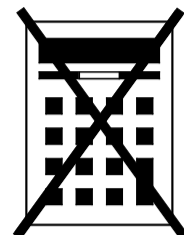


N 0 V 2 2 8 3 6 2 1 0 1

## MATERIALS

For this paper you must have:

- mathematical instruments.



You must **NOT** use a calculator.

## INSTRUCTIONS

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer ALL questions.
- You must answer the questions in the spaces provided. Do not write on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.



- **State the units of your answer where appropriate.**

## **INFORMATION**

- **The marks for questions are shown in brackets.**
- **The maximum mark for this paper is 20.**
- **You may ask for more answer paper, graph paper and tracing paper. These must be tagged securely to this answer book.**

## **ADVICE**

**In all calculations, show clearly how you work out your answer.**

**DO NOT TURN OVER UNTIL TOLD TO DO SO**



**SECTION A**

**Answer ALL questions in the spaces provided.**

- 1 Circle the calculation that increases 80 by 47% [1 mark]**

$$80 + 0.47$$

$$80 \times 0.47$$

$$80 \div 1.47$$

$$80 \times 1.47$$

- 2 Write  $\frac{5}{8}$  as a decimal. [1 mark]**

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**Answer** \_\_\_\_\_



**3 Circle the largest number. [1 mark]**

**-8**

**-2**

**-5**

**-15**

**[Turn over]**



- 4 An event has four possible independent outcomes, A, B, C or D.

The table shows the probabilities of three of the outcomes.

Outcome	A	B	C	D
Probability	0.23	0.071		0.538

Work out the probability of outcome C. [2 marks]

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Answer \_\_\_\_\_



5 Work out  $\frac{2(9^2 - 31)}{5}$  [3 marks]

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Answer \_\_\_\_\_

8

[Turn over]



## **SECTION B**

**Answer ALL questions in the spaces provided.**

### **6 FRUIT AND VEGETABLES**

**Alana grows fruit and vegetables in her garden.**





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**[Turn over]**



**6 (a) Alana wants to change the layout of her garden.**

**Alana wants to have**

- **a rectangular vegetable patch  
3 m by 15 m**
- **a rectangular greenhouse  
4.5 m by 6 m**
- **a circular fruit patch with a radius  
of 3 m**

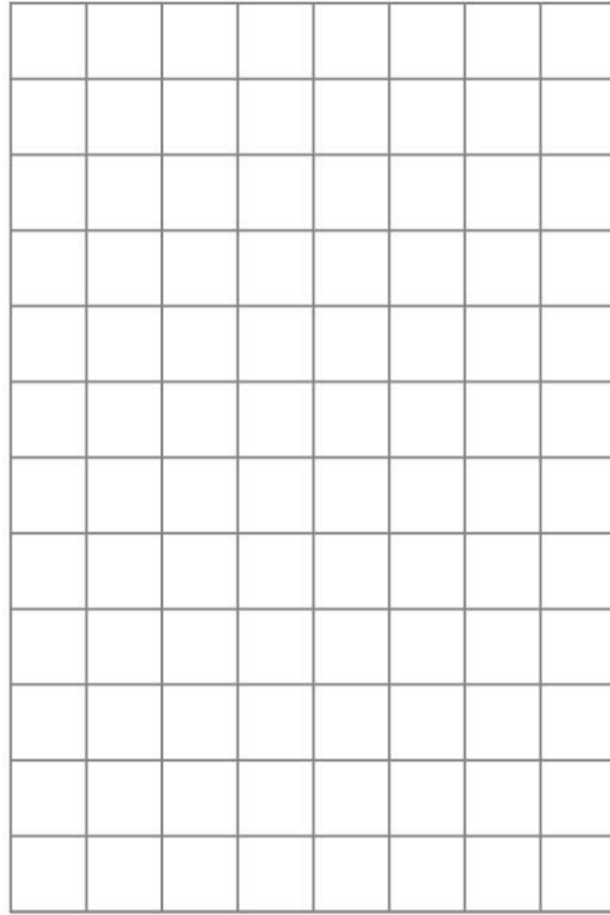
**The centimetre grid, on the opposite page, represents a scale drawing of the garden.**

**Draw and label a possible plan for the garden on the grid.**

**Use the scale 2 cm represents 3 m  
[4 marks]**



**SCALE: 2 cm represents 3 m**



**[Turn over]**



**6 (b) Last year, Alana grew raspberries INSIDE, in her greenhouse and OUTSIDE, on her fruit patch.**

**Here is the data for the 10 raspberry plants grown INSIDE.**

<b>Number of raspberries per plant</b>				
<b>324</b>	<b>297</b>	<b>304</b>	<b>321</b>	<b>310</b>
<b>333</b>	<b>293</b>	<b>301</b>	<b>320</b>	<b>295</b>

**Here is some information about the raspberry plants grown OUTSIDE.**

<b>Number of raspberries per plant</b>	
<b>Median</b>	<b>298</b>
<b>Range</b>	<b>78</b>



**This year, Alana wants to grow all the raspberries in the place where the number of raspberries per plant has the higher average and is more consistent.**

**Should she grow the raspberries inside or outside?**

**Show working to support your answer. [5 marks]**

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**[Turn over]**





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**[Turn over]**



**6 (c) Alana wants to make raspberry jam.**

**She uses this recipe.**

**RASPBERRY JAM**

**Mix 2 kg of raspberries with 2.4 kg of sugar**

**Alana has**

**3.5 kg of raspberries**

**and**

**4 kg of sugar.**

**Alana wants to use all the raspberries.**

**How much MORE sugar does she need?**

**Give your answer in grams.**

**[3 marks]**











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For Examiner's Use	
Question	Mark
1–5	
6	
<b>TOTAL</b>	

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