

A



Surname _____

Forename(s) _____

Centre Number _____

Candidate Number _____

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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]



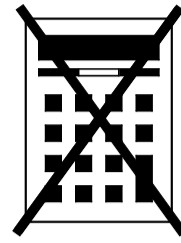
N 0 V 2 2 8 3 6 2 1 0 1

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]

$80 + 0.47$

80×0.47

$80 \div 1.47$

80×1.47

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

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]

Answer _____



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

Answer _____

[Turn over]

8



SECTION B

Answer ALL questions in the spaces provided.

6 FRUIT AND VEGETABLES

Alana grows fruit and vegetables in her garden.

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**.

Number of raspberries per plant				
324	297	304	321	310
333	293	301	320	295

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

Number of raspberries per plant	
Median	298
Range	78



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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]



Answer _____ grams

END OF QUESTIONS

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For Examiner's Use	
Question	Mark
1–5	
6	
TOTAL	

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1 8



2 2 B G 8 3 6 2 / 1