## AQA

Please write clearly in block capitals.

Centre number |  |  |  |  |  |
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Candidate number


Surname
Forename(s) $\qquad$
Candidate signature I declare this is my own work.

## Functional Skills Level 1 MATHEMATICS

## Paper 2 Calculator

Tuesday 28 February 2023
Afternoon Time allowed: 1 hour 30 minutes

## Materials

For this paper you must have:

- a calculator
- mathematical instruments.



## 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 outside the box around each page or 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).

| For Examiner's Use |  |
| :---: | :---: |
| Question | Mark |
| $1-7$ |  |
| 8 |  |
| 9 |  |
| 10 |  |
| 11 |  |
| TOTAL |  |

- 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 60 .
- 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.

4 Work out $76^{2}-47^{2} \quad$ [2 marks]

## Answer

5 Write these fractions in order of size, starting with the largest.
$\frac{2}{3}$
$\frac{3}{5}$
$\frac{5}{8}$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer $\qquad$ , $\qquad$ ,
6 Work out the range of these numbers.
[2 marks]

20 $15 \quad 9$|  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Answer
$7 \quad$ Here is an L-shape.


Not drawn accurately

Work out the area of the L-shape.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer $\qquad$ $\mathrm{cm}^{2}$


8 (b) The company uses this formula to work out the charge for a job.

Charge $=£ 45$ plus $£ 28$ per hour the job takes

The job will take 11 hours.
Will the charge be less than $£ 350$ ?
You must show your working.
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$\qquad$

## Question 8 continues on the next page

8 (c) The diagram shows how much petrol is in the tank of Kim's van.


Kim takes the van to the petrol station to fill the tank.
The tank holds 64 litres when full.
Petrol costs $£ 1.45$ per litre.
Kim has $£ 70$ to pay for the petrol.
Does she have enough money to fill the tank with petrol?
You must show your working.
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Talik says,
"If I use option 1 , rather than option 2 , I will save more than $£ 35$ "
Is he correct?
You must show your working.
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$\qquad$
Question 9 continues on the next page

9 (b) Talik finds information about the number of students who cycle to his school. In total, 115 students cycle to school.
The bar chart shows the information for some of the year groups.
The information for Year 7 and Year 11 is missing.


Twice as many Year 11 students as Year 7 students cycle to school.
Complete the bar chart.
[6 marks]
$\qquad$
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$10 \quad$| Wedding |
| :--- |
| Linda is planning a wedding. |

10 (a) Linda is planning where to place the tables for the wedding meal.
All the tables are rectangular.
She wants

- a gap of at least 1 metre all around each table
- one main table measuring 5 metres by 1 metre
- two guest tables each measuring 2 metres by 1 metre
- one cake table measuring 1 metre by 0.5 metres.

The grid below is a scale drawing of the room.
Use the grid to draw and label a possible plan for the tables.

Scale:
represents a 0.5 metre by 0.5 metre square


10 (b) Linda is making a bouquet of flowers for the bride.
She will use pink roses and cream roses in the ratio pink: cream $=1: 3$
Linda will put 5 pink roses in the bouquet.
She has 21 cream roses.
How many cream roses will she have left after making the bouquet?
You must show your working.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer $\qquad$

10 (c) Linda is baking the wedding cake.
She finds this recipe for a cake to serve 20 people.

| Wedding cake - serves 20 |
| :---: |
| 200 grams flour |
| 850 grams dried fruit |
| 180 grams butter |
| 180 grams sugar |
| 6 eggs |

Linda wants to make enough cake for 30 people.
She has plenty of flour, sugar and eggs.
She has
1 kilogram of dried fruit
140 grams of butter.
Work out how much more dried fruit and butter she needs.
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
dried fruit $\qquad$ grams
butter $\qquad$ grams

| 11 | School Playground <br> Steve works as a caretaker in a primary school. |
| :--- | :--- | :--- |
| $\mathbf{1 1}$ (a)Steve wants to buy a climbing frame for the school playgro <br> Pupils in Years 4, 5 and 6 have been fundraising to pay fo <br> The climbing frame will cost $£ 950$ <br> The table shows how much money they have raised so far |  |
| $\qquad$Class Amount Raised (£) <br> Year 4 325 <br> Year 5 234 <br> Year 6 282 |  |

The teachers help by baking and selling cakes.
They sell 62 cakes for $£ 1.20$ each.
All the money from selling the cakes is added to the fundraising total.
How much more money do they need to raise to buy the climbing frame?
$\qquad$
$\qquad$
$\qquad$
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$\qquad$
$\qquad$

Answer £ $\qquad$

11 (b) Steve built a new sand pit for the school playground.
The sand pit is in the shape of a cuboid.


Steve needs to buy bags of sand to fill the sand pit to the top.
Each bag contains $0.05 \mathrm{~m}^{3}$ of sand.
How many bags of sand does Steve need to buy?
You must show your working.
$\qquad$
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$\qquad$

Answer $\qquad$

Question 11 continues on the next page

11 (c) Steve is going to replace the fence panels around the playground.
Here is a plan view of the playground.


Not drawn accurately

Steve will keep the old gate and buy new fence panels.
Fence panels are 2 m wide.
Each 2 m panel costs $£ 32.46$
Steve says,
"The total cost of the fence panels will be less than $£ 1600$ "
Is he correct?
You must show your working.
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| Question number | Additional page, if required. <br> Write the question numbers in the left-hand margin. |
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