AQA

Please write clearly in block capitals.

Centre number | | | | | | Candidate number | | | | |

Surname _____

Forename(s) _____

Candidate signature _____

I declare this is my own work.

# Functional Skills Level 2
# MATHEMATICS

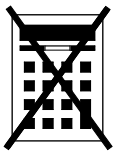
## Paper 1 Non-Calculator

Time allowed: 30 minutes

**Materials**

For this paper you must have:
- mathematical instruments.

You must **not** use a calculator.



| For Examiner's Use | |
|---|---|
| Question | Mark |
| 1–6 | |
| 7 | |
| **TOTAL** | |

**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).
- 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 write outside the box*

## Section A

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

**1** Here are nine numbers.

1 1 1 2 2 4 4 6 6

Circle the mode.

**[1 mark]**

1 2 3 6

**2** Write 9 007 065 in words.

**[1 mark]**

**3** Work out 7.4 – 2.137

**[1 mark]**

Answer _____

*Do not write outside the box*

**4** Work out $50 + 75 \div 5^2$

**[2 marks]**

Answer _____

**5** Write $4\frac{3}{7}$ as an improper fraction.

**[1 mark]**

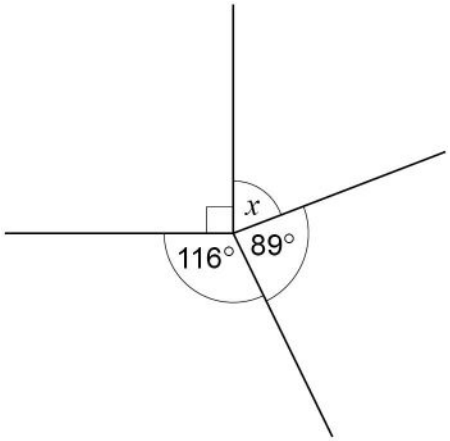
Answer _____

**Turn over for the next question**

*Do not write outside the box*

**6** Work out the size of angle $x$.

**[2 marks]**




Not drawn accurately

Answer _____ °

8

*Do not write outside the box*

## Section B

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

**7 Rowing club**

Jake is a member of a rowing club.

**7 (a)** Jake goes rowing at the club one morning.

He leaves home at 7.30 am

It takes him

25 minutes to drive to the club

and then

45 minutes to get the boat ready and start rowing.

Jake rows at an average speed of 10 kilometres per hour for a distance of 5 kilometres.

What time is it when he has rowed 5 kilometres?

**[4 marks]**

Answer _____

**Turn over ►**

*Do not write outside the box*

**7 (b)** Jake wants to row 60 kilometres in one week.

He rows 7 kilometres every day for 5 days.

What **fraction** of the 60 kilometres does he have left to row?

Give your answer in its simplest form.

**[3 marks]**

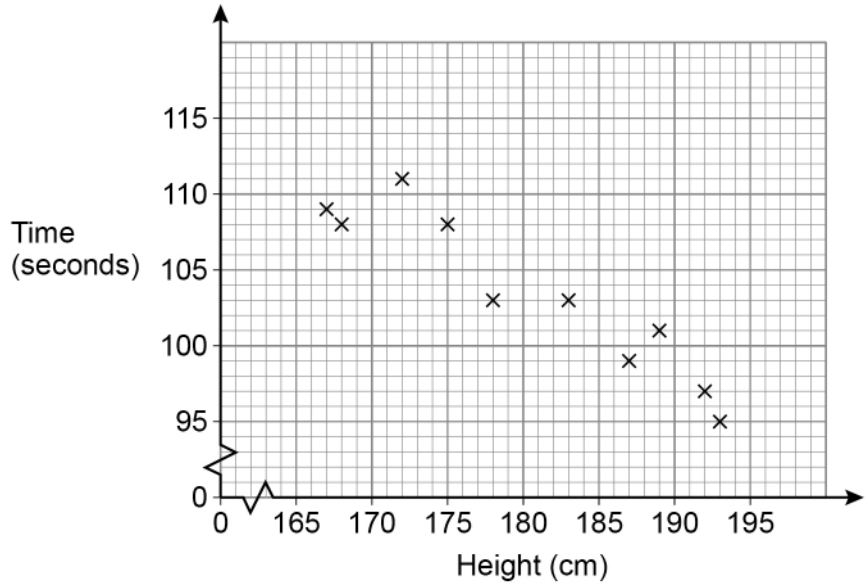
Answer _____

*Do not write outside the box*

**7 (c)** Twelve rowers take part in a race.

Jake records the height of each rower and the time they take to complete the race.

Ten of the results are shown on the scatter diagram.




The table shows the data for the other two rowers.

| Height (cm) | Time (seconds) |
|---|---|
| 170 | 110 |
| 185 | 99 |

Plot the two extra points and then use the scatter diagram to estimate the time for a rower of height 180 cm

You **must** show your working, which should be on the diagram.

Give the units of your answer.

**[5 marks]**

Answer _____

12

**END OF QUESTIONS**

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**ANSWER IN THE SPACES PROVIDED**

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| Question number | **Additional page, if required.**<br>**Write the question numbers in the left-hand margin.** |
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**ANSWER IN THE SPACES PROVIDED**

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