A

AQA

Surname _____

Other Names _____

Centre Number _____

Candidate Number _____

Candidate Signature _____

I declare this is my own work.

Functional Skills Level 2

MATHEMATICS

Paper 1 Non-Calculator

8362/1

Time allowed: 30 minutes

At the top of the page, write your surname and other names, your centre number, your candidate number and add your signature.

[Turn over]

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   **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 _____

[Turn over]

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

_____

_____

_____

_____

_____

_____

Answer _____

5 **Write** $4\frac{3}{7}$ **as an improper fraction. [1 mark]**

_____

_____

_____

Answer _____

BLANK PAGE

[Turn over]

6 **Work out the size of angle x. [2 marks]**

The diagram is not drawn accurately.

116° 89°

x

_____

_____

_____

_____

_____

_____

_____

_____

_____
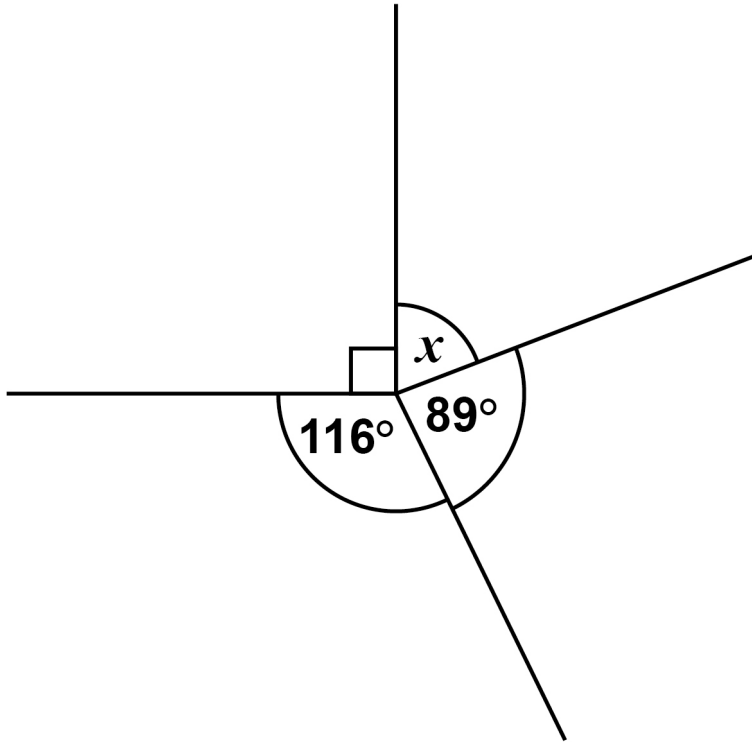
Answer _____ **°**

___
8

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

**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 _____

BLANK PAGE

[Turn over]

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.

Time (seconds)
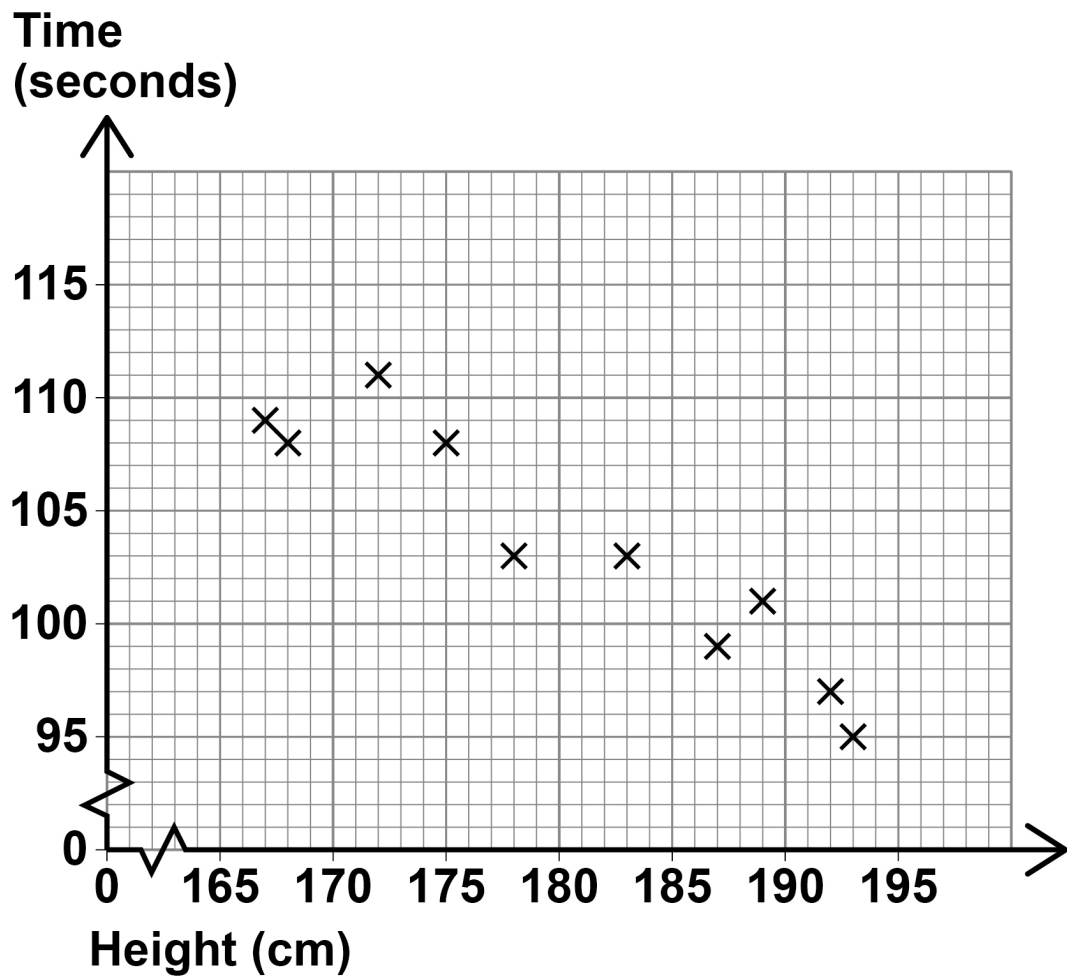
Height (cm)

The table, on the opposite page, shows the data for the other two rowers.

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

On the opposite page, 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 _____

END OF QUESTIONS

12

Additional page, if required.
Write the question numbers in the left-hand margin.

17

Additional page, if required.
Write the question numbers in the left-hand margin.

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IB/M/SB/Mar22/8362/1/E3