## $A Q A=$

Please write clearly in block capitals.

Centre number

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

Candidate number


Surname
Forename(s) $\qquad$
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.


## Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Answer all questions.

| For Examiner's Use |  |
| :---: | :---: |
| Question | Mark |
| $1-5$ |  |
| 6 |  |
| TOTAL |  |

- 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.

## Section A

Answer all questions in the spaces provided.
$1 \quad$ Circle the ratio equal to $9: 2$
$\frac{2}{9}: 1$
$4.5: 1$
$4.5: \frac{2}{9}$
$1: 4.5$

2 Write the number 3490200 in words.
[1 mark]

3 Here is a solid made from centimetre cubes.


On the centimetre square grid, draw a plan view of the solid.


Turn over for the next question

4 | Work out $3.86+0.013 \times 5$ |
| :--- |
|  |

## Answer

$\qquad$
$5 \quad$ Which is greater, $3 \frac{2}{9}$ or $\frac{13}{4}$ ?
You must show your working.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer

## Section B

Answer all questions in the spaces provided.

## 6 Toy cars

Max has made a straight race track for his toy cars on a floor.
6 (a) The grid represents the floor.


The straight track starts at $A(1,10)$ and finishes at $B(13,2)$.
There is a flag at the halfway point of the track.
Work out the coordinates of the flag.
$\qquad$
$\qquad$

Answer ( $\qquad$ , $\qquad$ )
6 (b) Max wants to compare the performance of two cars, P and Q .
Each car does four timed races on the track.
For car P,

$\quad$| mean $=9.3$ seconds |
| :--- |
| range $=3.8$ seconds |
| The table shows the results for car Q. |
|  |
| Race 1 |
| Time, seconds |
| 10.15 |
| Race 2 |
| Race 3 |
| Race 4 |

Compare the average time and consistency of the two cars.
You must show your working.

Average time $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
Consistency $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

6 (c) Max needs to buy batteries for the cars.
There are two packs to choose from.

| Pack A |
| :---: |
| $£ 5.60$ |
| 8 batteries |
| each battery lasts |
| $3 \frac{1}{2}$ hours |
| 10 batteries |
| each battery lasts |
| 3 hours |

Which pack is better value for money, A or B ?
You must show your working.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer

## END OF QUESTIONS

There are no questions printed on this page

DO NOT WRITE ON THIS PAGE ANSWER IN THE/SPACES PROVIDED
There are no questions printed on this page




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