



**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 Circle the ratio equal to  $9 : 2$  [1 mark]

$\frac{2}{9} : 1$

$4.5 : 1$

$4.5 : \frac{2}{9}$

$1 : 4.5$

2 Write the number 3 490 200 in words. [1 mark]

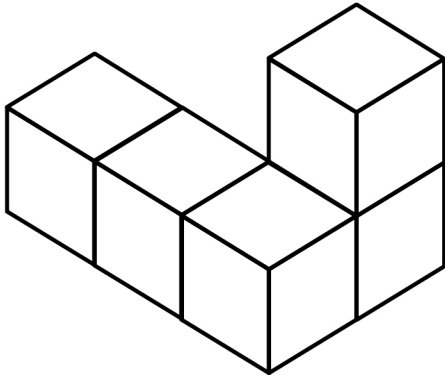
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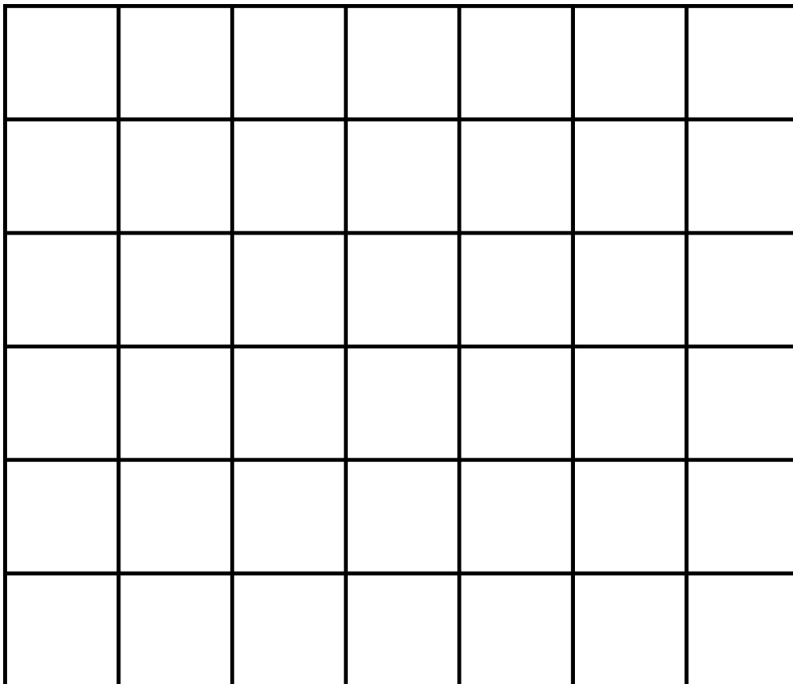
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3 Here is a solid made from cubes.



On the square grid, draw a plan view of the solid.  
[1 mark]



[Turn over]



4 **Work out**  $3.86 + 0.013 \times 5$  **[2 marks]**

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**Answer** \_\_\_\_\_



5 Which is greater,  $3\frac{2}{9}$  or  $\frac{13}{4}$  ?

You **MUST** show your working. [3 marks]

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Answer \_\_\_\_\_

[Turn over]

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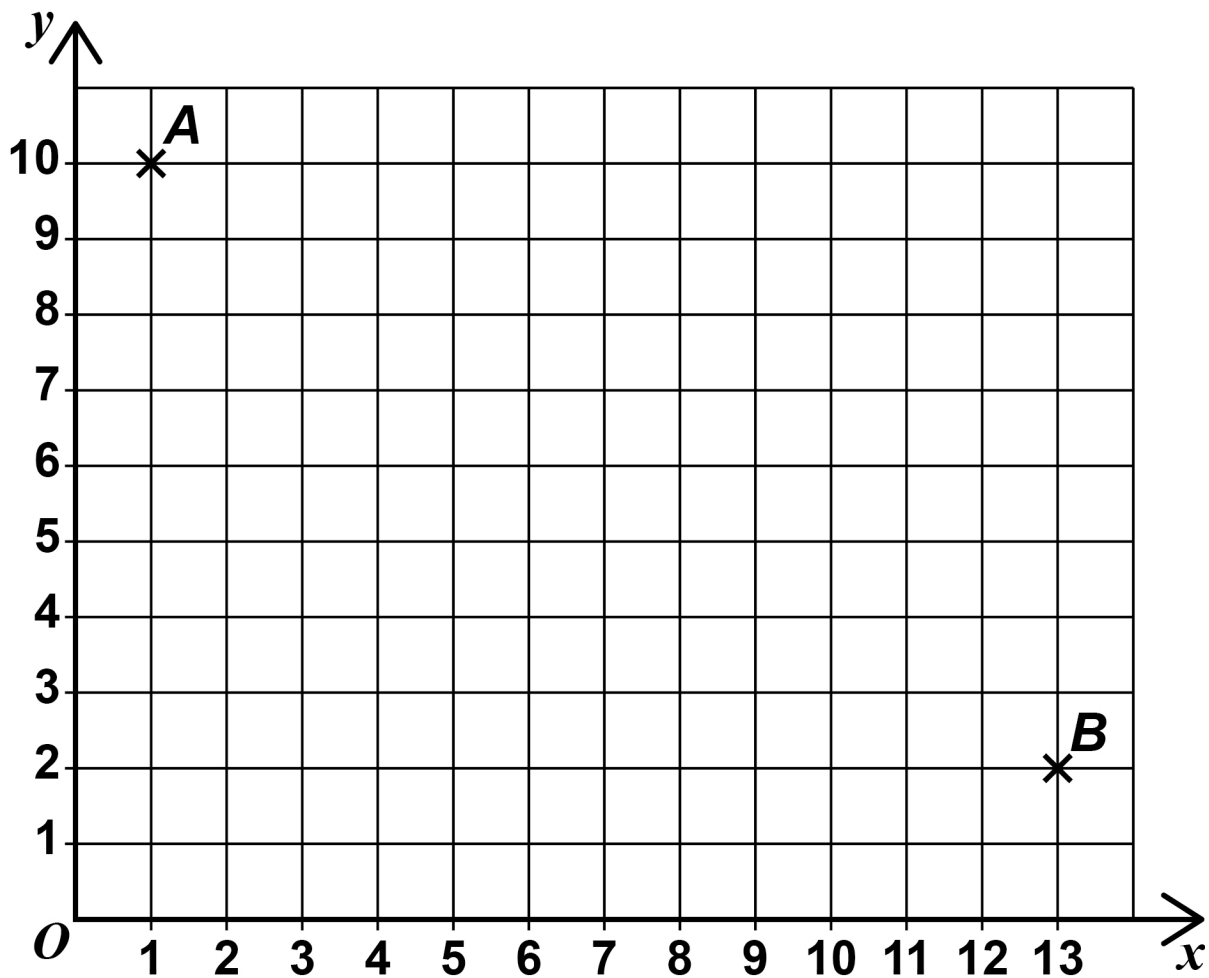
**SECTION B**

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. [3 marks]

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Answer ( \_\_\_\_\_ , \_\_\_\_\_ )

[Turn over]



- 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,

mean = 9.3 seconds

range = 3.8 seconds

The table shows the results for car Q.

	Race 1	Race 2	Race 3	Race 4
Time, seconds	10.15	8.35	7.8	12.1

Compare the average time and consistency of the two cars.

You **MUST** show your working. [5 marks]

Average time \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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**Consistency** \_\_\_\_\_

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**[Turn over]**



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**

**PACK B**  
**£6.30**  
**10 batteries**  
**each battery lasts**  
**3 hours**

Which pack is better value for money, A or B?

You **MUST** show your working. [4 marks]

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Answer \_\_\_\_\_

**END OF QUESTIONS**

12



**Additional page, if required.**

**Write the question numbers in the left-hand margin.**

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**Additional page, if required.**

**Write the question numbers in the left-hand margin.**

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For Examiner's Use	
Question	Mark
1-5	
6	
<b>TOTAL</b>	

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