



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
1-5	
6	
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.



J U N 2 2 8 3 6 2 1 0 1

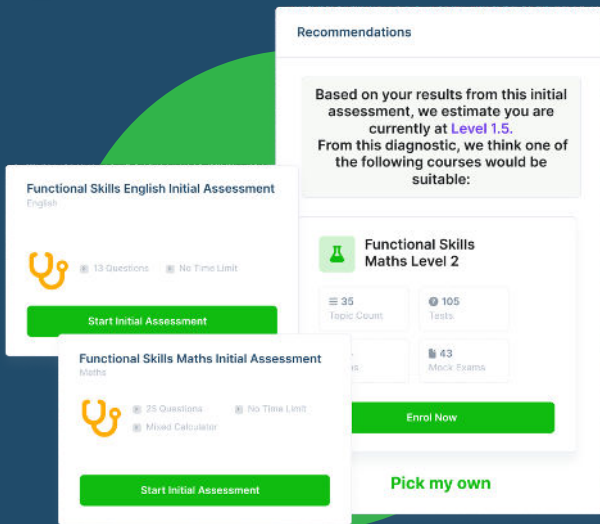
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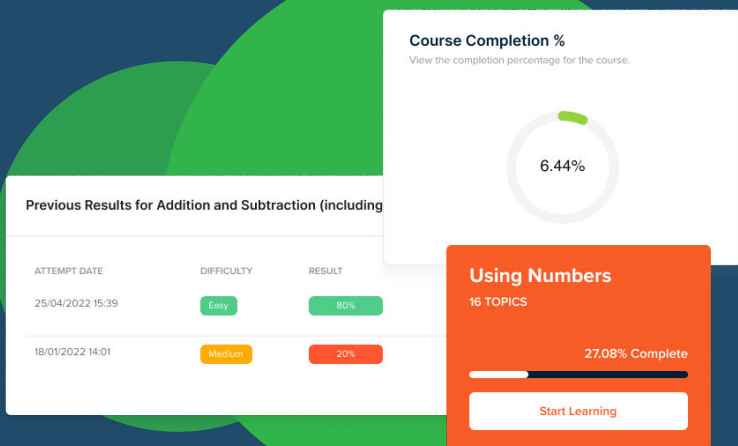
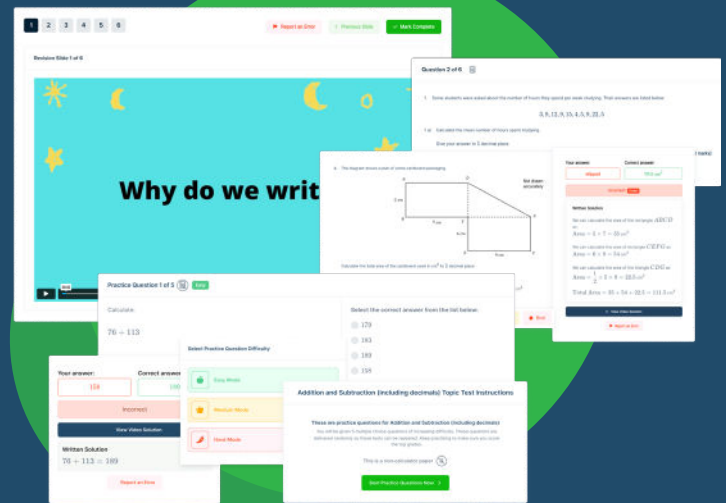


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Section A

Do not write
outside the
box

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]

Three million, four hundred and
ninety thousand and two hundred.

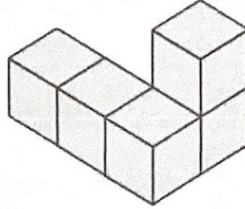


0 2

3

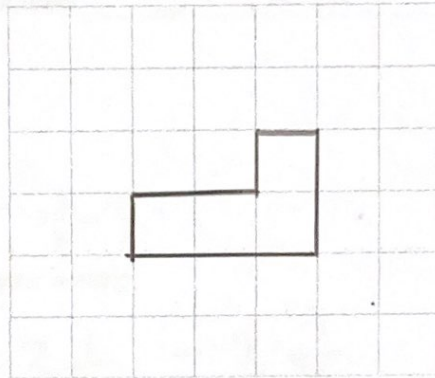
3 Here is a solid made from centimetre cubes.

Do not write
outside the
box



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

[1 mark]



Turn over for the next question

Turn over ►



4 Work out $3.86 + 0.013 \times 5$

[2 marks]

$$0.013 \times 5 = 0.065.$$

$$3.86 + 0.013 \times 5 = 3.86 +$$

$$0.065$$

$$= 3.925$$

Answer 3.9255 Which is greater, $3\frac{2}{9}$ or $\frac{13}{4}$?

You must show your working.

[3 marks]

$$\frac{13}{4} = 3\frac{1}{4} = 3\frac{9}{36}.$$

$$3\frac{2}{9} = 3\frac{8}{36}$$

$$3\frac{9}{36} > 3\frac{8}{36} \Rightarrow \frac{13}{4} > 3\frac{2}{9}.$$

Answer $\frac{13}{4}$ Do not write
outside the
box

Section B

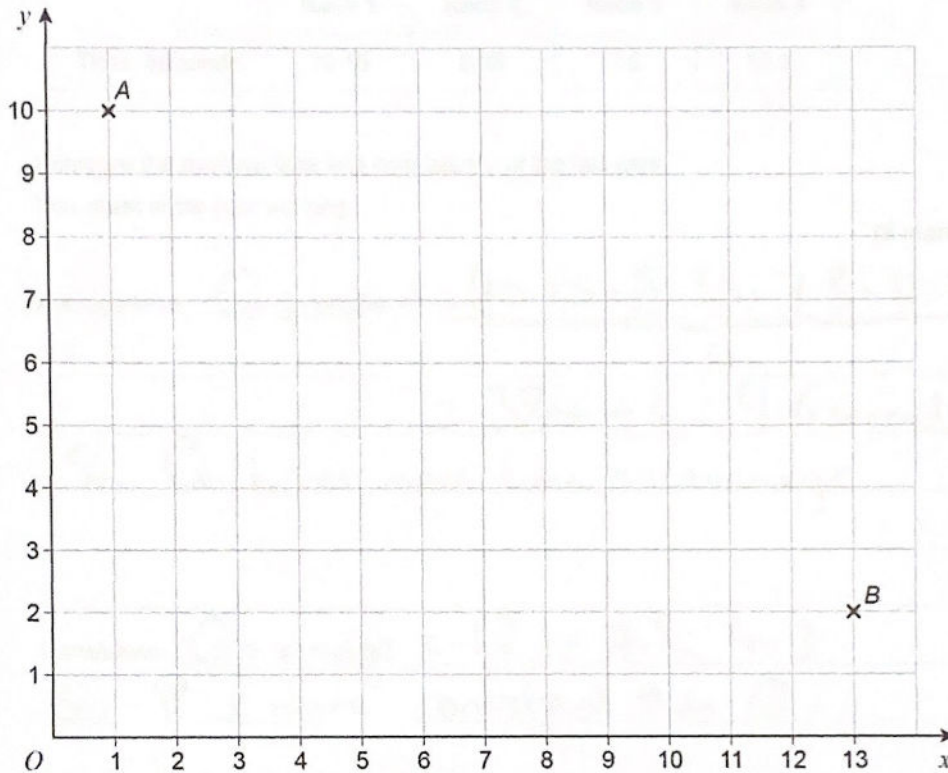
Do not write
outside the
box

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]

$$\text{Mid} = \left(\frac{13+1}{2}, \frac{10+2}{2} \right) = \left(\frac{14}{2}, \frac{12}{2} \right)$$

$$= (7, 6)$$

Answer (7 , 6)

Turn over ►



0 5

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 Q 's mean = $\frac{(10.15 + 8.35 + 7.8 + 12.1)}{4}$

$$= 38.4 \div 4 = 9.6 \text{ seconds}$$

So Q takes more time on average.

Consistency Q 's range = $12.1 - 7.8 = 4.3$.

So P is more consistent than Q .



- 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]

$$\text{Pack A: } 8 \times 3.5 = 28 \text{ hours}$$

$$28 \text{ hours} \div \pounds 5.60 = 5 \text{ hours per } \pounds 1.$$

$$\text{Pack B: } 10 \times 3 = 30 \text{ hours.}$$

$$30 \div 6.3 = \frac{30}{6.3} = \frac{100}{21} = 4.7\dots$$

hours per $\pounds 1.$

Pack A is better value.

Answer Pack A.

12

END OF QUESTIONS

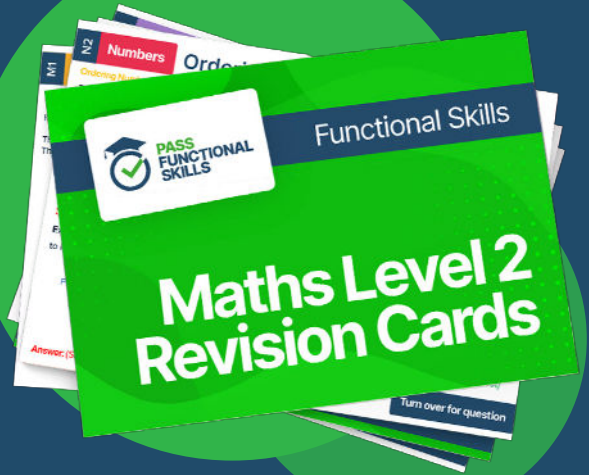




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