



# FUNCTIONAL SKILLS MATHS & ENGLISH

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# Level 2 Functional Skills Mathematics

## SAMPLE PAPER 2

Duration: 1 hour 20 minutes

Total marks: 45 marks

### SECTION 2 – CALCULATOR PERMITTED

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration\*

• If you have used any additional answer sheets write the number of additional sheets in this box.

• Please ensure that you **staple** additional answer sheets to the **back** of this booklet, clearly labelling them with your full name, enrolment number, centre number and date in BLOCK CAPITALS.

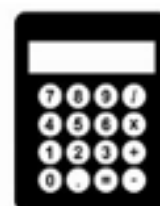
• You must use a black or blue pen. You may use a pencil for charts and diagrams.

**\*I declare that I had no prior knowledge of the questions in this assessment and that I will not share information about the questions.**

**Please check that your name is correctly printed on the candidate barcode label. If not, please tell the invigilator before the start of the exam.**

#### You should have the following for this assessment

- a calculator
- a pen with black or blue ink
- a pencil (for diagrams, graphs and charts only)
- an eraser
- a 30cm ruler.



**You must NOT use a protractor.**

#### General instructions

- Read through each question carefully.
- Show your working out (where required).
- Write all your working out and answers in this booklet.
- Check your calculations and check that your answers make sense.
- There are additional pages **including graph paper** at the back of this booklet if you run out of space or ask the invigilator if you need additional sheets of paper.

## SECTION 2 – CALCULATOR PERMITTED

There are **45** marks in this section.

You should check all your work as you go along.

You may use a calculator.



**Q1**

0.06 million  $\div$  6.2 thousand =

**Give your answer to two decimal places**

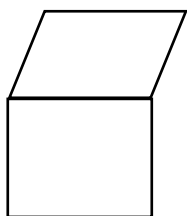
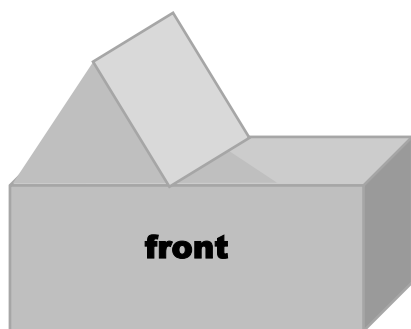
\_\_\_\_\_ (1 mark)

**Q2**

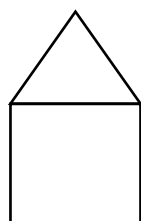
What is  $\frac{3}{87}$  as a decimal correct to **three decimal places**?

\_\_\_\_\_ (1 mark)

**Q3** The diagram shows the outline of a building.



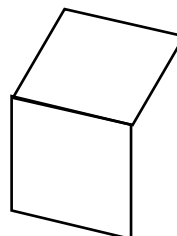
**A**



**B**



**C**



**D**

Which one of the above shows the elevation of the left side of the building?

*(tick one box)*

**A**

**B**

**C**

**D**

(1 mark)

**Q4**

1m<sup>3</sup> is the same as

*(tick one box)*

- A 100 cm<sup>3</sup>
- B 1000 cm<sup>3</sup>
- C 100 000 cm<sup>3</sup>
- D 1 000 000 cm<sup>3</sup>

**(1 mark)**

**Q5** A social club sells 50 pink raffle tickets and 75 yellow raffle tickets.

Tickets are drawn randomly.

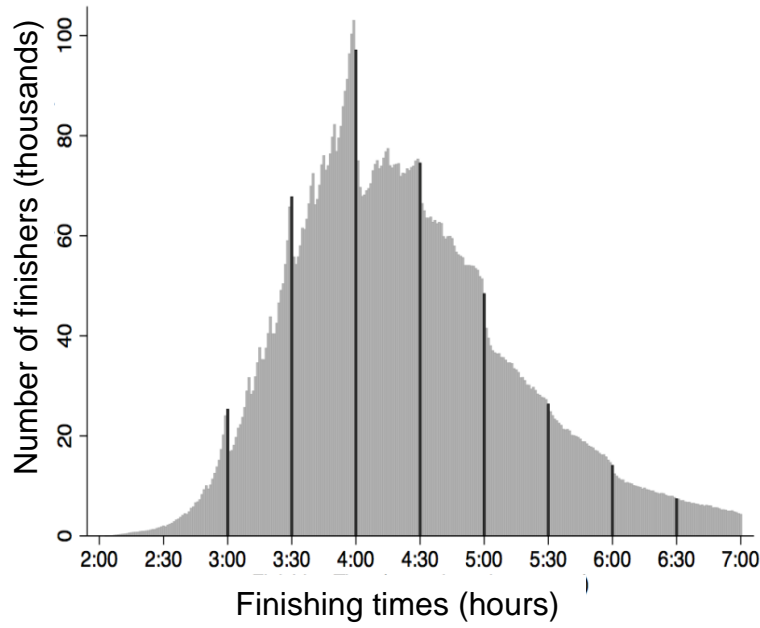
What is the probability that the first ticket drawn will be a pink ticket?

Give your answer as a decimal.

---

**(1 mark)**

**Q6** The chart shows finishing times of marathon runners.



A report states that most of the runners finished in under 4 hours.

Is the report correct?

Explain your decision.

**Decision** (*tick one box*)    **Yes**     **No**

**Explanation**

**(1 mark)**

**Q7** A shop has a sale.  
There is 30% off all black tag items.



One day this notice appears in the shop.

**One day only**  
**BLACK TAG** 

**An extra 25% off marked reduced price**

**BETTER THAN HALF PRICE!**

A customer complains that the notice is misleading because it is not true.

Is the customer correct?

Explain your decision. Include calculations to support your decision.

**Decision** (*tick one box*) Yes  No

**Show all your working**

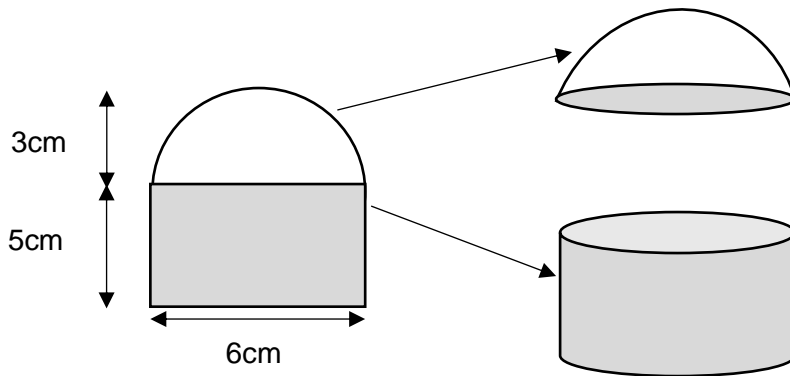
**Explanation and supporting calculations.**

**(3 marks)**

**Q8** A craftsman uses resin to make a paperweight.

He makes the paper weight from two parts, a hemisphere **and** a cylinder.

He uses this plan.



$$V = \frac{2}{3}\pi r^3$$

$V$  = volume of **hemisphere** in  $\text{cm}^3$

$r$  = radius of **hemisphere** in cm

$\pi = 3.14$

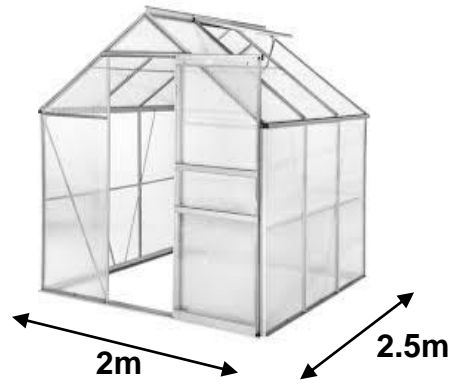
How much resin does he need for **both** parts?

**Show all your working**

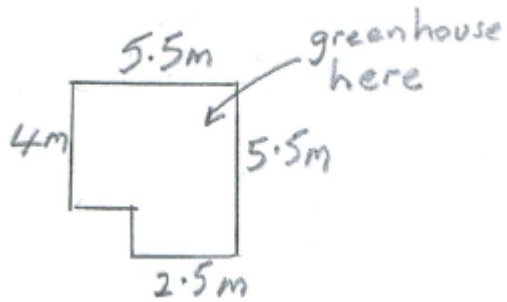
Amount of resin \_\_\_\_\_  $\text{cm}^3$

**(4 marks)**

**Q9** A gardener wants to build this greenhouse in the top right hand corner of her garden.



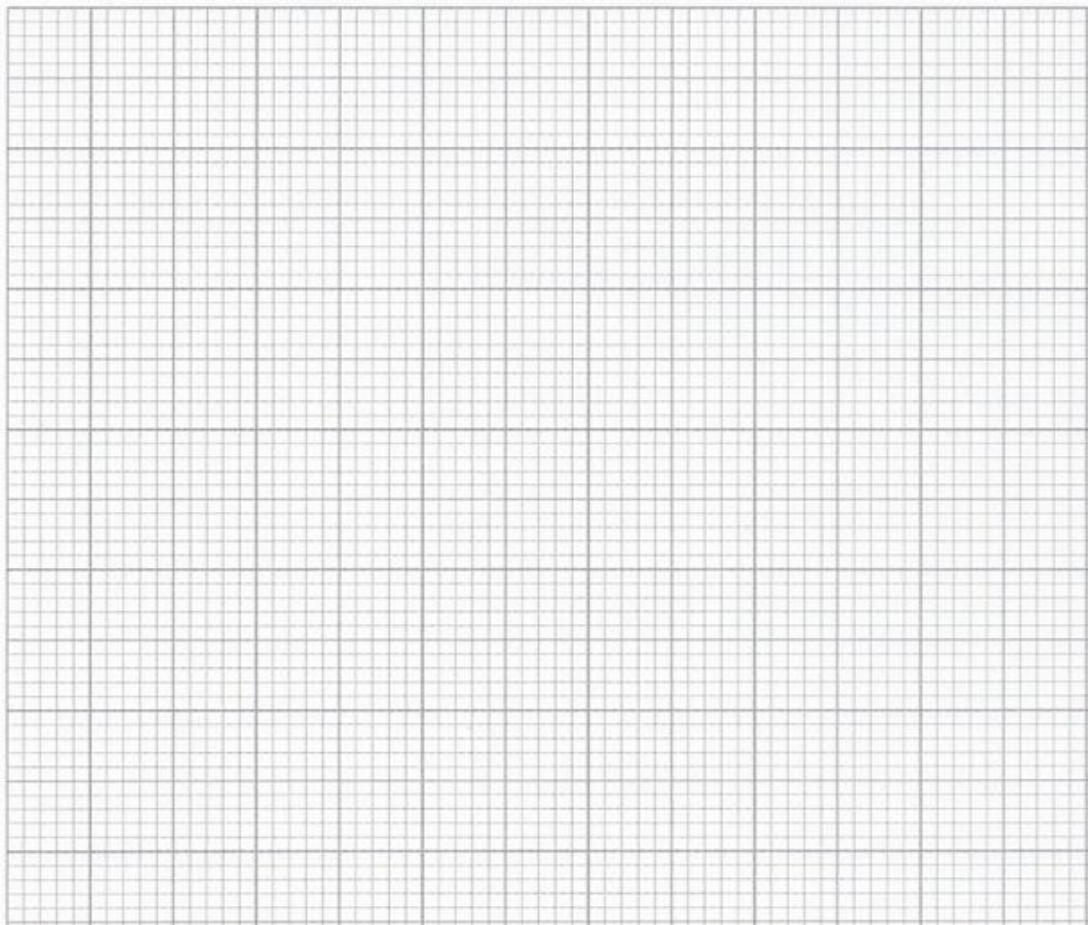
This is a sketch plan of her garden.



She will leave a 50cm space between the greenhouse and the edge of the garden.

She wants a scaled plan of the garden showing the position of the greenhouse.

Draw a scale plan. Put the scale you use on the plan.



**(4 marks)**

There is spare graph paper on page 23



**Q11** A supermarket buyer compares large eggs from two suppliers.

She wants to buy the largest eggs.

The table shows the masses of a sample of large eggs from Supplier A.

<b>Weights of large eggs (Supplier A)</b>	
<b>Weight in grams</b>	<b>Number of eggs</b>
$63 < g \leq 65$	22
$65 < g \leq 67$	27
$67 < g \leq 69$	26
$69 < g \leq 71$	15
$71 < g \leq 73$	10

A similar sample taken from supplier B gives a mean value of 66.5g

Which supplier should the buyer use?  
Explain your decision.

**Decision** (*tick one box*)

**Supplier A**

**Supplier B**

**Show all your working**

**Explanation and supporting calculations.**

**(4 marks)**

**Q12** A man has £5000.

He will put his money into a savings account at a bank.

He wants to save it for one year.

Bank A pays 2% compound interest. It adds interest every 6 months.

Bank B pays 3.15% annual interest rate.

Which bank should the man choose?

Explain your decision. Include calculations to support your decision.

**Decision** (*tick one box*)   **Bank A**    **Bank B**

**Show all your working**

**Explanation and supporting calculations.**

**(4 marks)**

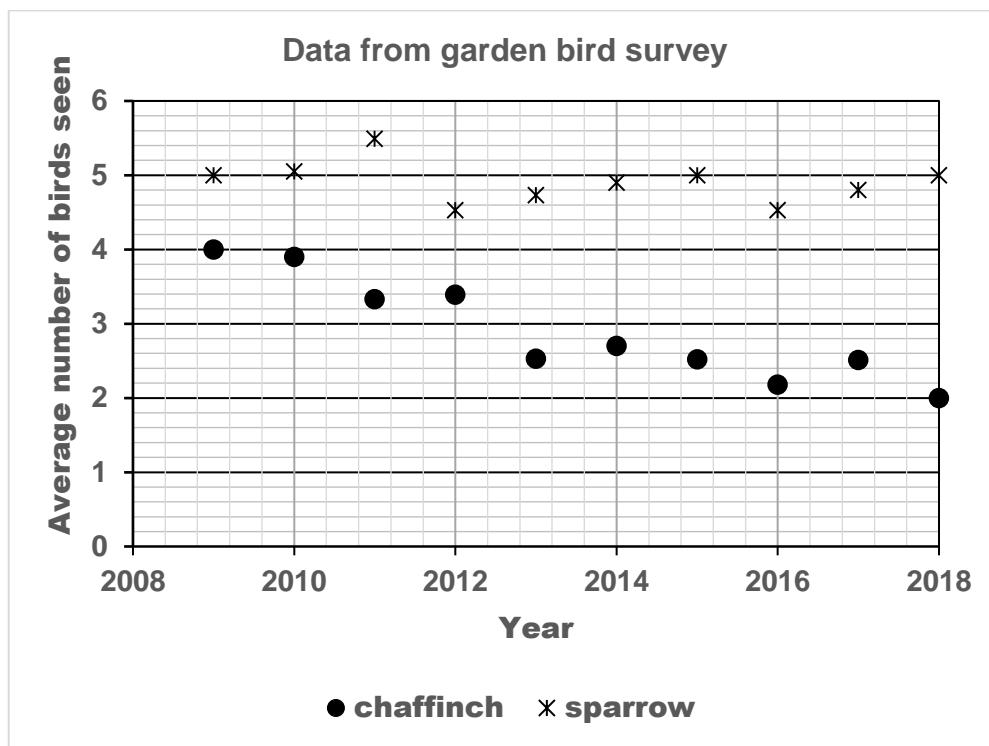
Q13 A magazine article has this headline.

## Garden birds in decline

Fewer birds seen in our gardens

An environmental organisation records information about bird populations.

The graph shows some data about two types of garden birds.



Is the magazine headline correct?

Show suitable calculations of percentage changes for the last ten years and draw trend lines on the graph to support your answer.

Explain your answer and make **two** comments.

Show all your working

Comment 1

Comment 2

(5 marks)

**Q14** A team manager wants to pick four people for a bowling competition.

She decides to pick players with consistently good average (**median**) scoring performances.

She picks the following three people.

Player	Average score (median) over last eight matches	Range of scores over last eight matches
Archie	105	26
Baz	101	37
Cathy	99	32

She needs one more player to make up the team.

She look at the scores of two more players.

Scores in last eight matches	
Dave	Elaine
78	87
48	98
102	101
98	84
86	93
101	79
67	87
96	97

Make suitable calculations for Dave and Elaine.

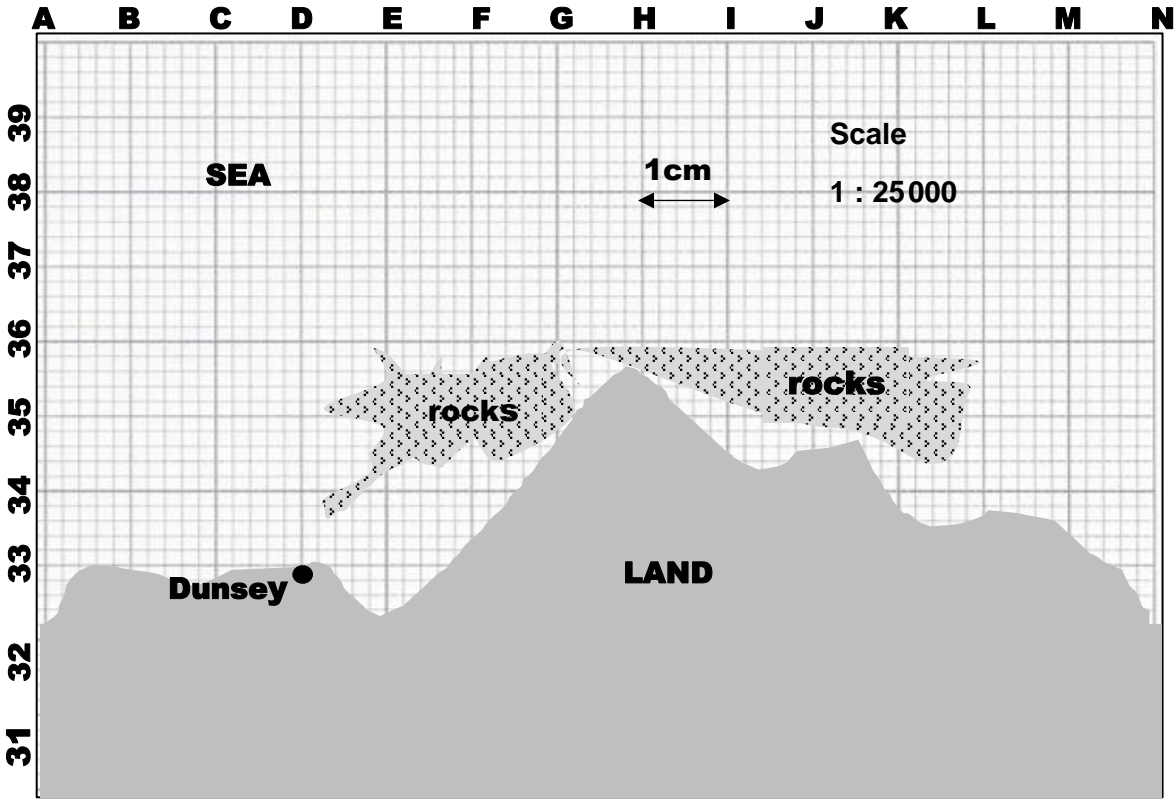
Decide which player best fits the requirements. Explain your decision using figures.

Player picked (*tick one box*) Dave  Elaine

Explanation and supporting calculations

(5 marks)

Q15 A fisherman sets off from Dunsey in a boat.  
His boat will travel at an average speed of 5 kilometres per hour.  
He has this map so that he can avoid the rocks.



He needs to meet up with a ship at coordinate L34 at 5pm  
He needs to know at what time he must leave Dunsey.

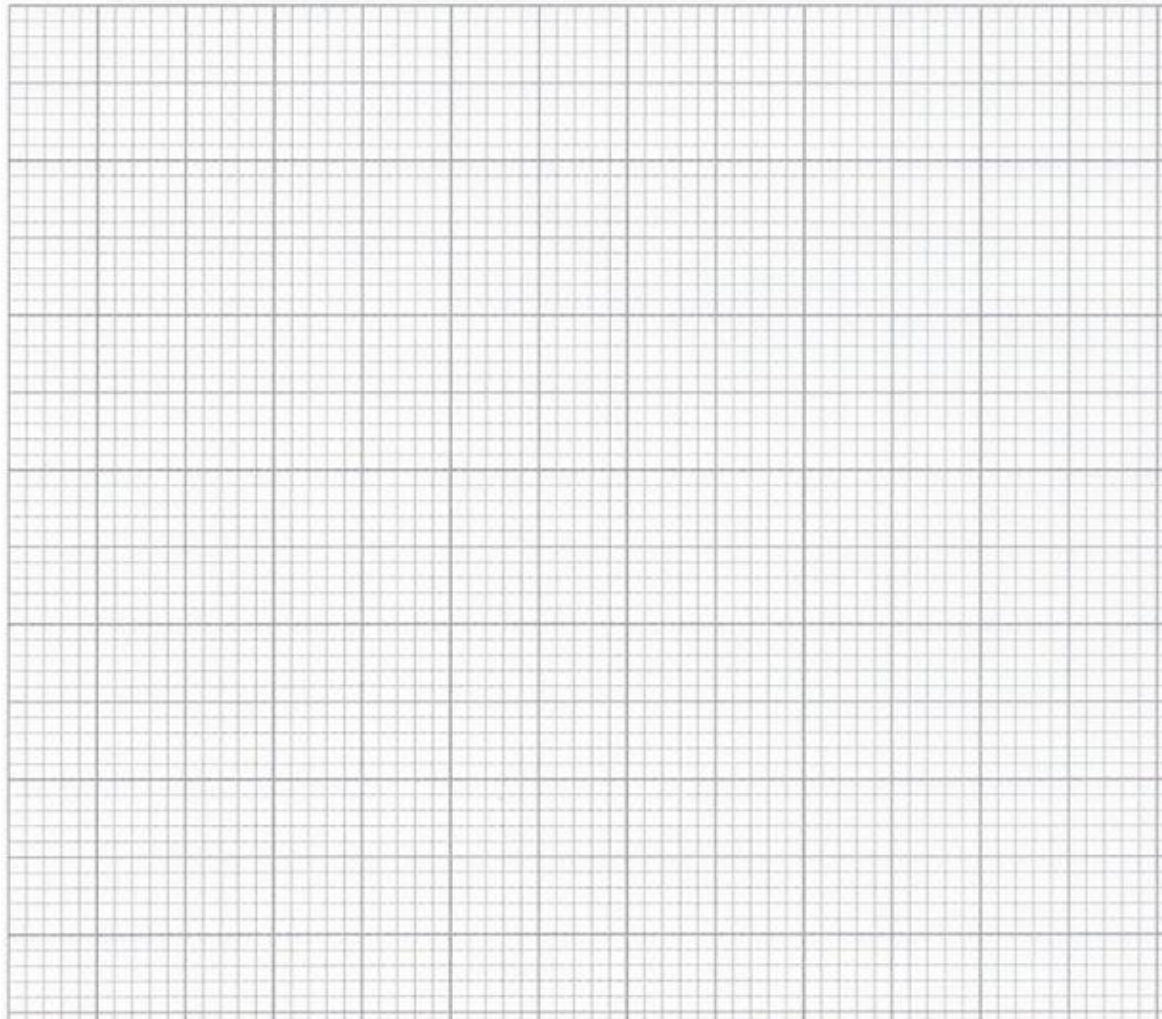
At what time must he leave Dunsey?

Show all your working.

Time to leave Dunsey \_\_\_\_\_

(6 marks)

**Spare graph paper for Question 9**



**Extra space for working out and answers**

**End of section 2**



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