

# GCSE Foundation

## Half Practice Paper 1c

# LUCKY MATHS



More papers



Solutions



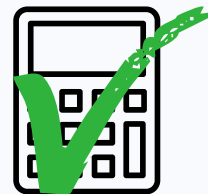
### Instructions

Use black ink or ball-point pen.

Draw diagrams in pencil.

Write your answers in the spaces provided and show all working.

The total mark for this paper is 40



### Materials

Black pen

Pencil

Ruler

Scientific Calculator

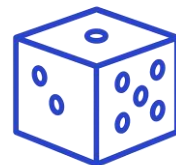
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**Answer ALL questions.**  
**Write your answers in the spaces provided.**  
**You must write down all the stages in your working.**

- 1** Write six thousand one hundred and forty-seven in figures.

.....

**(Total for Question 1 is 1 mark)**

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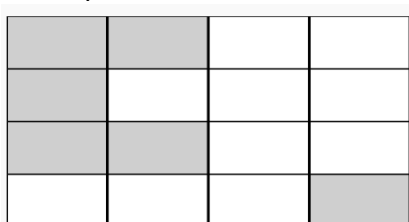
- 2** Simplify:  $m + m + m + m + m$

.....

**(Total for Question 2 is 1 mark)**

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- 3** Here is a grid of squares.



What fraction of the grid is shaded?

.....

**(Total for Question 3 is 1 mark)**

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- 4** Write down a number that is less than  $-5$ .

.....

**(Total for Question 4 is 1 mark)**

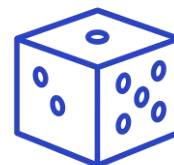
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- 5** Change 7 kilograms into grams.

.....

**(Total for Question 5 is 1 mark)**

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**6 Eloise's bakery is packing bags of flour.**

Each bag weighs **8kg**.

Eloise's bakery has already packed **210 bags**, and needs to pack a total of **3200 kg** of flour.

**How many more bags does Eloise's bakery need to pack?**

.....  
(Total for Question 6 is 3 marks)

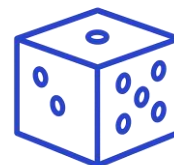
**7 320 students were asked what their favourite sport was.**

Here is an accurately drawn pie chart.



(a) How many people chose football?

.....  
(1)



The number of students who chose **tennis** is the **same** as **basketball**.

(b) Work out how many people chose basketball.

.....

(2)

(c) Work out the size of this angle that represents basketball.

.....

(1)

(Total for Question 7 is 4 marks)

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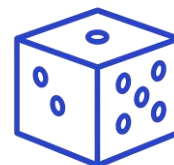
**8** Here are the first **four terms** of a number sequence:

56, 49, 42, 35

(a) Explain how to find the **next term** in the sequence.

.....  
.....  
.....

(1)



(b) Find the **difference** between **4<sup>th</sup>** term and the **7<sup>th</sup>** term of the sequence

.....  
.....  
.....

(2)

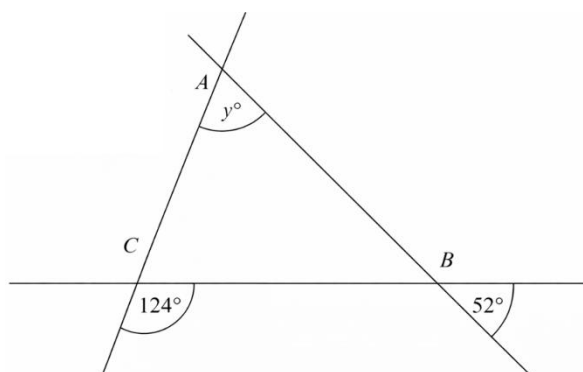
(c) Explain why -6 **can not** be a term in this sequence.

.....  
.....  
.....

(1)

(Total for Question 8 is 4 marks)

9 The diagram shows three straight lines.

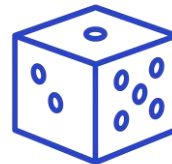


Find the value of **y**.

You must give reasons for each stage of your answer

.....  
(3)

(Total for Question 9 is 3 marks)



- 10** There are three friends.  
**Albert** has £30  
**Brad** has £54  
**Antonio** has **four** times as much money as **Albert**.

These friends three then **share** out all of the money **equally**.

Work out how much money each of the three friends get.

.....  
(Total for Question 10 is 3 marks)

- 
- 11** **25%** of a number is **80**.

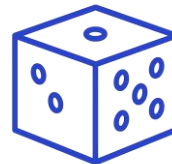
(a) Work out **40%** of the same number.

.....  
(2)

(b) **Increase** 480 by **18%**.

.....  
(2)

(Total for Question 11 is 4 marks)



**12 Five numbers have a mean of 12 and a mode of 15.**

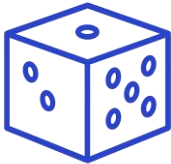
Three of the numbers are 8, 12 and 15.

Find the other two numbers.

You must show all of your working.

.....  
(3)

(Total for Question 12 is 3 marks)



13 Work out the value of

$$\sqrt{\frac{76 - 5.4}{28 + 6.3}}$$

(a) Write down all of the figures on your calculator display

.....  
(1)

(b) Write your answer to part (a) correct to 2 significant figures.

.....  
(2)

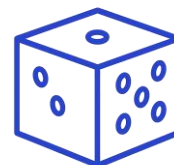
(Total for Question 13 is 3 marks)

14 (a) Complete the table of values below for  $y=x^2+3x$ .

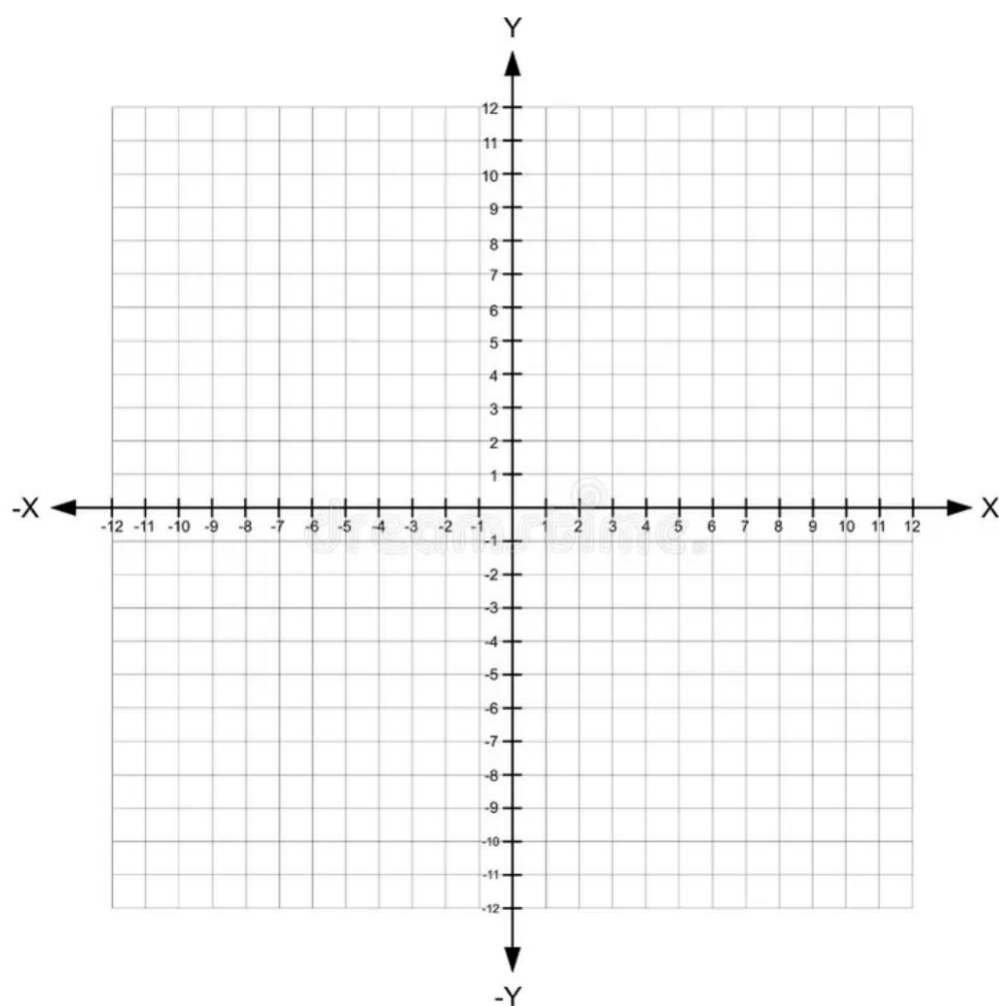
x	-3	-2	-1	0	1	2	3
y							

(2)



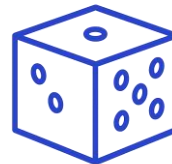


(b) Plot the graph on the axis below.



(2)

(Total for Question 14 is 4 marks)



**15 Two factories are producing juice bottles.**

- Factory P produces 45 bottles every 25 minutes.
- Factory Q produces 78 bottles every 40 minutes

On **Wednesday**:

- Factory P operates for 14 hours.
- Factory Q operates for 11 hours.

Work out the **total** number of juice bottles produced by **both** factories on **Wednesday**.

.....  
(4)

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(Total for Question 15 is 4 marks)

**TOTAL FOR PAPER IS 40 MARKS**