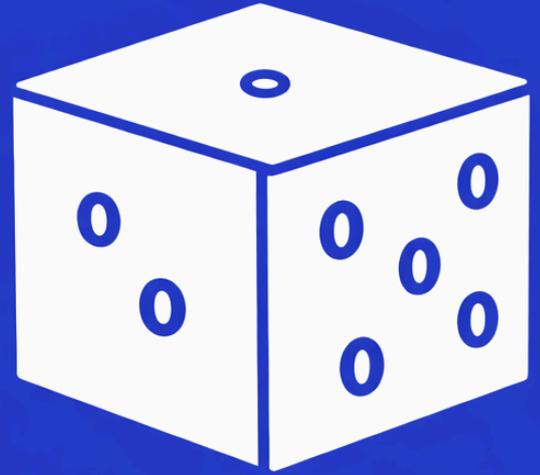


# GCSE Foundation Half Practice Paper

Paper 1c  
Calculator

# LUCKY MATHS



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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

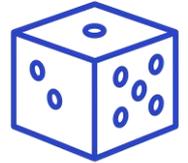
## Disclaimer:

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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)**

---

2 Simplify:  $m + m + m + m + m$

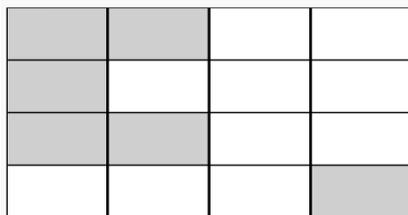
.....

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

---

2 Here is a grid of squares.

3



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)**

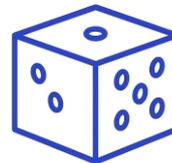
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5 Change 7 kilograms into grams.

.....

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

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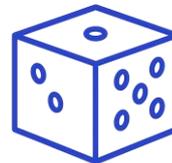
6 **Eloise's bakery is packing bags of flour.**

Each bag weighs **8kg**.

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

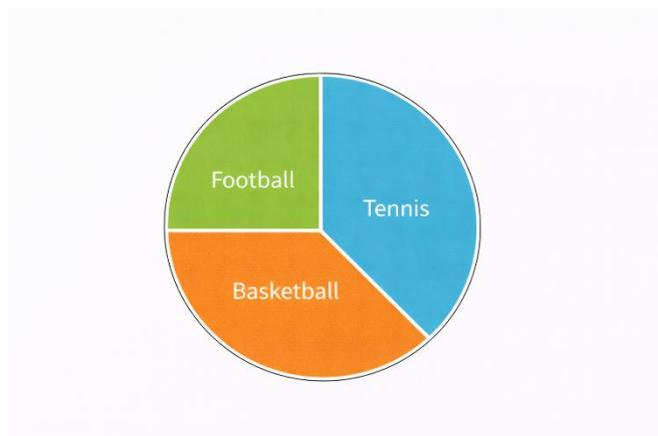
How many **more** bags does Eloise's bakery need to pack?

.....  
(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**.

.....

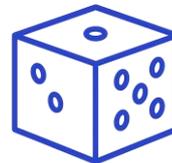
(2)

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

.....

(1)

(Total for Question 7 is 4 marks)



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)

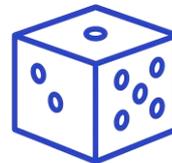
(c) Explain why **-6 can not** be a term in this sequence.

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

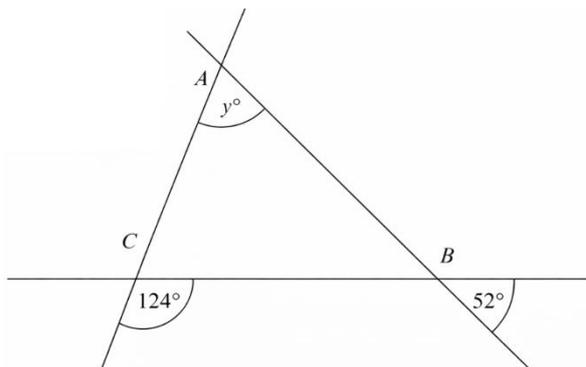
(1)

(Total for Question 8 is 4 marks)

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9 The diagram shows three straight lines.



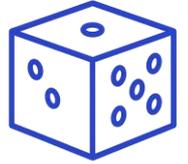
Find the value of  $y$ .

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

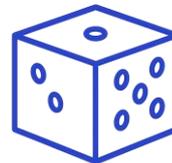
**Brad** has £54

**Antonio** has **four** times as much money as **Albert**.

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

Work our 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.

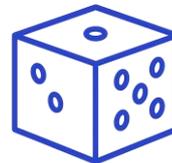
You must show all of your working.

.....

(3)

(Total for Question 12 is 3 marks)

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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.

.....

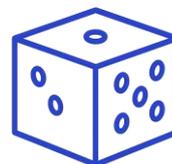
(2)

(Total for Question 13 is 3 marks)

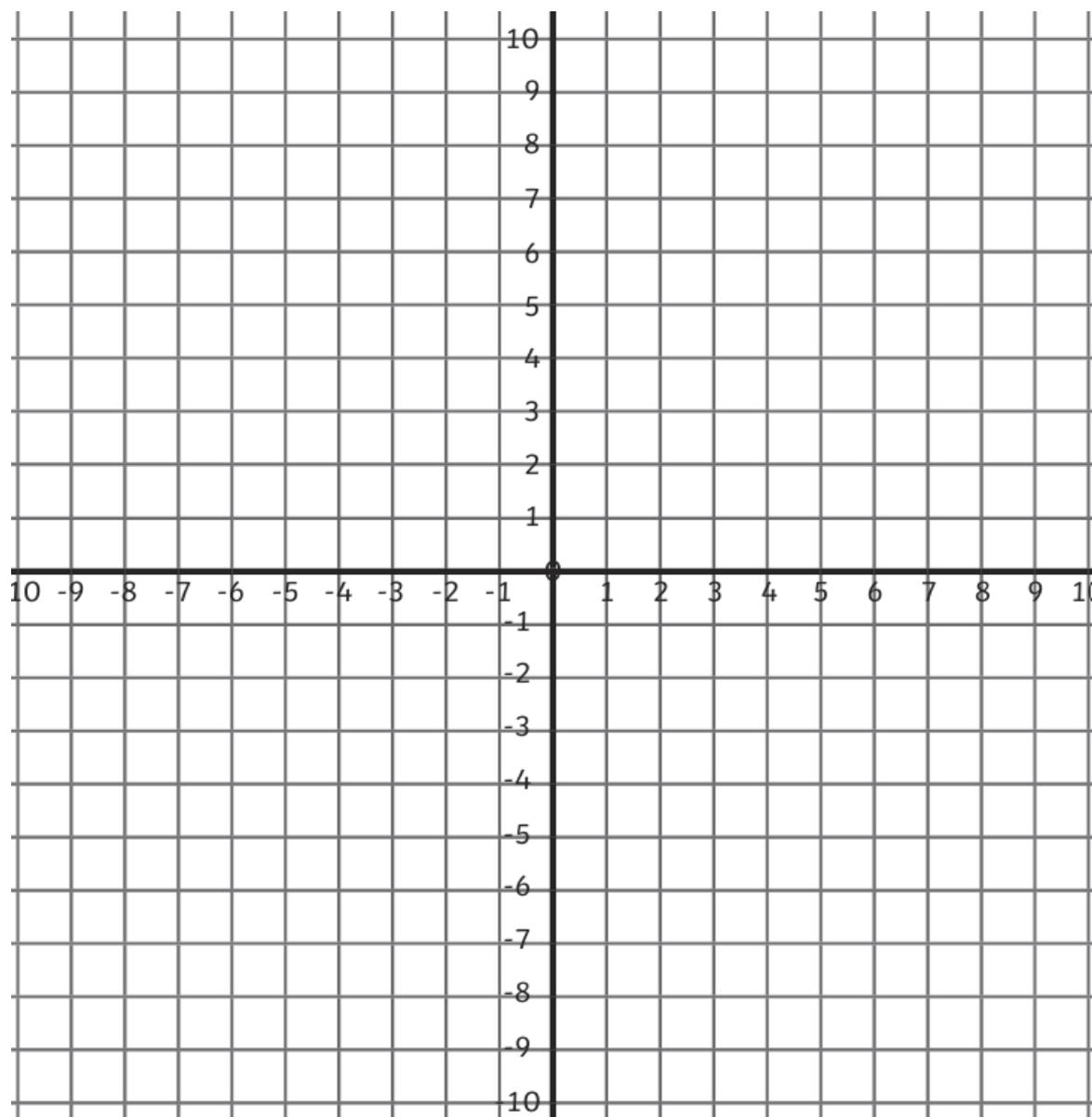
14 (a) Complete the table of values below for  $y = x^2 + 3x$ .

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

(2)

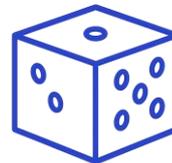


(b) Plot the graph on the axis below.



(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)**

**(Total for Question 15 is 4 marks)**

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**TOTAL FOR PAPER IS 40 MARKS**