

# GCSE Foundation Half Practice Paper 2b

# 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

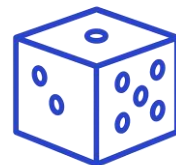
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Answer ALL questions.  
Write your answers in the spaces provided.  
You must write down all the stages in your working.

- 1 Work out  $150 \div 3$ .

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

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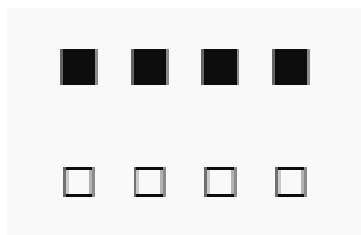
- 2 Complete the statement.

4 metres=.....centimetres

(Total for Question 2 is 1 mark)

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- 3 What **percentage** of the squares are shaded?



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

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- 4 Simplify  $f + f + f - f$ .

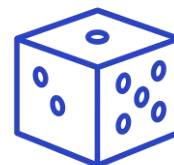
.....  
(Total for Question 4 is 1 mark)

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- 5 Write **2%** as a decimal.

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

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- 6 (a) Write down the value of  $5^2$ .

.....

(1)

- (b) Write down the value of  $\sqrt{81}$

.....

(1)

- (c) Write down the value of  $4^3$

.....

(1)

(Total for Question 6 is 3 marks)

- 
- 7 (a) Here is a list of **four** numbers.

5.84    6.12    6.27    6.31

Use **one** number from the list to complete each statement.

The number **closest** in value to 6 is \_\_\_\_\_

The number that **rounds** to 6.3 to 1 decimal place is \_\_\_\_\_

(2)

- (b) Here is a list of **six** numbers.

-12    -6    -3    5    -8    12

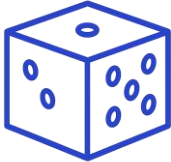
Use **two** numbers from the list to complete each statement.

**Two** numbers that **add** to make -1 are \_\_\_\_\_ and \_\_\_\_\_

**Two** numbers that **multiply** to make 24 are \_\_\_\_\_ and \_\_\_\_\_

(2)

(Total for Question 7 is 4 marks)



- 8 Bananas cost **30p** each.  
Pears cost **45p** each.

Amir has **£12** to spend on bananas and pears.

He buys:  
**8** bananas and **as many** pears as possible.  
How many **pears** does he buy?

.....  
(4)

(Total for Question 8 is 4 marks)

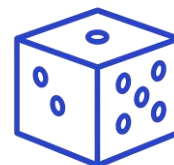
- 9 Leo and Mia go **cycling**.  
The **distance** they cycled is shown below,

Days	1	2	3	4	5	6	7	8
Leo	5	7	8	10	12	12	14	18
Mia	6	7	9	10	10	13	15	16

Complete the table.

	Median	Range
Leo		
Mia		

(Total for Question 9 is 4 marks)



**10** (a) Work out **15%** of **900**.

.....  
(2)

(b) Increase **200%** by **70%**.

.....  
(2)

(Total for Question 10 is 4 marks)

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**11** A **linear** sequence has:

1st term = 7

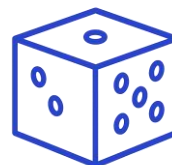
Sum of the 1st and 2nd terms = 19

Work out the **5th term** of the sequence.

.....  
(4)

(Total for Question 11 is 4 marks)

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- 12** Each day, Lina drinks  $\frac{1}{3}$  of a litre of juice in the **morning** and  $\frac{1}{2}$  a litre of juice in the **evening**.

How many litres of juice does she drink in **30 days**?

.....  
(3)

(Total for Question 12 is 3 marks)

- 
- 13** Two friends share **£360** in the ratio 2 : 5.

(a) Work out the **larger** share.

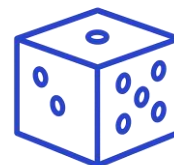
.....  
(2)

- (b) A **third** friend joins, and the **£360** is now shared between all **three** friends in the ratio 2 : 5 : 3.

How much **more** does the friend with the **largest** share get than the friend with the **smallest** share?

.....  
(3)

(Total for Question 13 is 5 marks)



- 14 A triangle has a **base** of 12 cm and a **height** of 7.5 cm.

Work out the **area** of the triangle.

..... $cm^2$   
(2)

(Total for Question 14 is 2 marks)

- 15 The **attendance** for a concert is **12,300** people to the nearest **100**.

(a) Write down the minimum possible attendance.

.....  
(1)

(b) Write down the maximum possible attendance.

.....  
(1)

(Total for Question 15 is 2 marks)

TOTAL FOR PAPER IS 40 MARKS