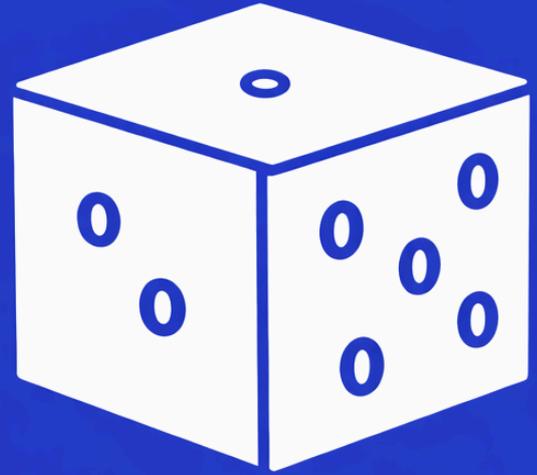


GCSE Foundation Half Practice Paper

Paper 3b
Calculator

LUCKY MATHS



More papers



SCAN ME



SCAN ME

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

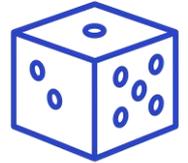
Disclaimer:

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Students and parents should use these papers as supplementary practice alongside official resources.



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

1 Work out: $3.4 + 7.82$

.....

(Total for Question 1 is 1 mark)

2 Simplify $\frac{12}{18}$

.....

(Total for Question 2 is 1 mark)

3 Write **3456** in words.

.....

(Total for Question 3 is 1 mark)

4 A normal price is **£12**. It **increases** by £1.50.

What is the new price?

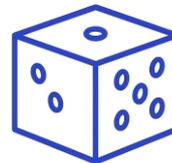
.....

(Total for Question 4 is 1 mark)

5 Work out: $7^2 - 5^2$

.....

(Total for Question 5 is 1 mark)



6 A shop sells apples for **35p each**.

(a) How much do **4** apples cost?

.....

(1)

(b) You pay with a **£5 note**. How much **change** should you receive?

.....

(2)

(Total for Question 6 is 3 marks)

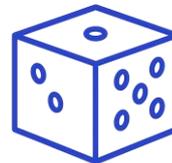
7 The table shows the number of books read by a group of Mr Luck's students last month:

Books read	Number of pupils
0–2	4
3–5	7
6–8	5

(a) How many pupils are there altogether?

.....

(1)



(b) What is the **modal** class?

.....

(1)

(c) What fraction of pupils read 6–8 books?

.....

(1)

(Total for Question 7 is 3 marks)

8 (a) Write these numbers in order from **smallest** to **largest**:

0.56, 0.506, 0.65, 0.605

.....

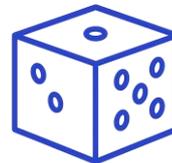
(2)

(b) Find the **difference** between the **largest** and the **smallest** number.

.....

(2)

(Total for Question 8 is 4 marks)



9 You spin a **fair** spinner with **4** equal sections: **Red, Blue, Green, Yellow**.

(a) Write down the **probability** of landing on **Blue**.

.....

(1)

(b) What is the **probability** of **not** landing on **Red**?

.....

(1)

(c) Out of **60** spins, how many times would you **expect** it to land on **Yellow**?

.....

(1)

(Total for Question 9 is 3 marks)

10 A recipe uses **240 g** of flour to make **8** biscuits.

(a) How much **flour** is needed for **1** biscuit?

.....

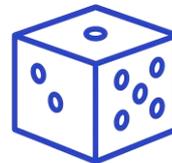
(2)

(b) How much **flour** is needed to make **15** biscuits?

.....

(2)

(Total for Question 10 is 4 marks)



11 Here are six numbers:

4, 8, 3, 9, 6, 10

(a) Work out the **median** of the numbers.

.....

(1)

(b) Work out the **mean** of the numbers.

.....

(2)

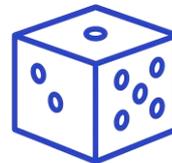
(c) **One** more number is **added** to the list. The new **mean** becomes **7**.

What is the value of the **new number**?

.....

(2)

(Total for Question 11 is 5 marks)



12 Solve the **equation**: $4x + 7 = 3x + 19$

Show all your working.

.....

(3)

(Total for Question 12 is 3 marks)

13 A shop has a **25% off** sale.

The usual price of a jacket is **£48**.

(a) How much is the **discount**?

.....

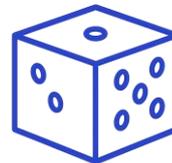
(2)

(b) What is the **sale price** of the jacket?

.....

(1)

(Total for Question 13 is 3 marks)



- 14 The grouped **frequency table** shows the **time (in minutes)** it took **32 pupils** to complete a maths quiz.

Time (minutes)	0–5	5–10	10–15	15–20	20–25
Frequency	4	11	9	6	2

Estimate the **mean time** taken. Use the **class midpoints** in your calculation and show your working.

Give your answer to **1 decimal place**.

.....

(3)

(Total for Question 14 is 3 marks)

-
- 15 A recipe for **fruit punch** uses ingredients in the ratio:

Orange Juice : Lemonade : Water = 3 : 5 : 2

Stacey wants to make **5 litres** of fruit punch.

Work out how much of each ingredient she should use.

Give your answers in **litres**.

Show all your working.

.....

(4)

(Total for Question 15 is 4 marks)

TOTAL FOR PAPER IS 40 MARKS