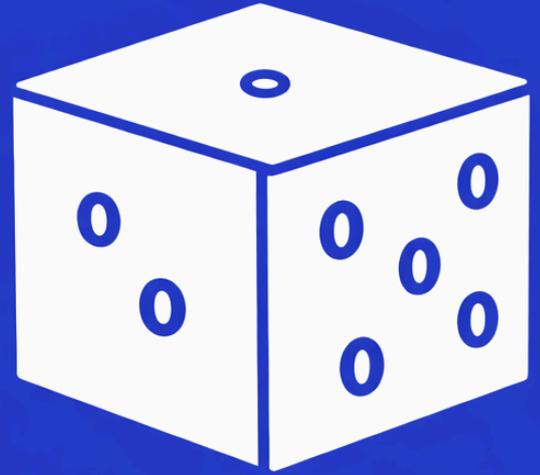


# GCSE Foundation Half Practice Paper

Paper 3a  
Calculator

# LUCKY MATHS



More papers



SCAN ME



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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

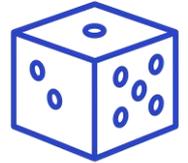
## Disclaimer:

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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 Write **58 291** correct to the **nearest thousand**.

.....

(Total for Question 1 is 1 mark)

---

2 Write **0.32** as a fraction in its simplest form.

.....

(Total for Question 2 is 1 mark)

---

3 Convert **5400 millilitres** into litres.

.....

(Total for Question 3 is 1 mark)

---

4 **Simplify:**  $6 \times 5p$

.....

(Total for Question 4 is 1 mark)

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5 Here is a list of numbers:

45, 60, 84, 96, 120

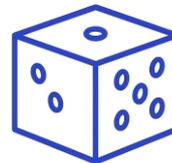
One of these numbers is **not a multiple of 12**.

Which number?

.....

(Total for Question 5 is 1 mark)

---



6 A rectangle has a **length of 11 cm** and a **width of 5 cm**.

(a) Work out the **perimeter** of the rectangle.

.....

(2)

The rectangle is then **enlarged by scale factor 2**.

(b) Work out the **area** of the enlarged rectangle.

.....

(2)

(Total for Question 6 is 4 marks)

---

7 Linda thinks of a number.

She **multiplies it by 6** and then **subtracts 11**.

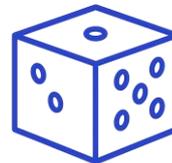
Her final answer is **55**.

What number did Linda think of?

.....

(3)

(Total for Question 7 is 3 marks)



8 A recipe for **20 muffins** needs:

- Flour: **300 g**
- Sugar: **120 g**
- Butter: **80 g**

Iris has:

- 900 g flour
- 450 g sugar
- 300 g butter

Work out the **greatest number of muffins** she can make.

Show all your working.

.....

(3)

(Total for Question 8 is 3 marks)

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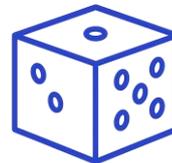
9 Here is a list of numbers:

4, 12, 3, 8, 12, 9, 6

(a) Work out the **range**.

.....

(2)



A number is chosen at random.

(b) What is the probability it is a **multiple of 3**?

.....

(2)

(Total for Question 9 is 4 marks)

---

**10** Pat is photocopying worksheets for a class.

The photocopier charges:

- **5p per sheet**, and
- a **fixed cost of 60p** for starting the machine.

Pat photocopies **n** sheets.

(a) Write an expression for the **total cost C (in pence)** in terms of **n**.

.....

(2)

Later, Pat spends £3.10 on photocopying.

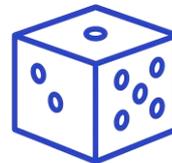
(b) Use your **expression** to work out **how many** sheets Pat photocopied.

Show all your working.

.....

(2)

(Total for Question 10 is 4 marks)



**11** There are **150 calories in 100 g of pasta**.

There are **90 calories in 100 g of sauce**.

Joby eats **250 g of pasta** and **180 g of sauce**.

Work out the **total calories** in Joby's meal.

Show all working.

.....

**(4)**

**(Total for Question 11 is 4 marks)**

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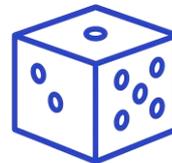
**12** A sequence begins with the numbers:

**5, 9, 13, 17, ...**

(a) Write down the **next two terms** in the sequence.

.....

**(2)**



(b) Explain whether **70** is a term in this sequence.

Show your working.

(1)

(Total for Question 12 is 3 marks)

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**13** A shop sells rice in:

- **900 g bags for £2.76**
- **1.5 kg bags for £4.50**

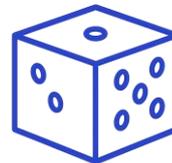
Which option gives the **cheaper price per kilogram**?

Show all your working.

.....  
(4)

(Total for Question 13 is 4 marks)

---



**14** Lexy invests **£1,800** for **3 years** at **4% simple interest per year**.

Work out the **total interest earned**.

.....

**(3)**

**(Total for Question 14 is 3 marks)**

---

**15** Albert and Brad have **280 coins** between them.

The ratio of **Albert's coins** to **Brad's coins** is **3 : 5**.

Albert gives some **coins** to Brad.

The ratio becomes **2 : 5**.

How many **coins** did Albert give to Brad?

Show all working.

.....

**(4)**

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

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**TOTAL FOR PAPER IS 40 MARKS**