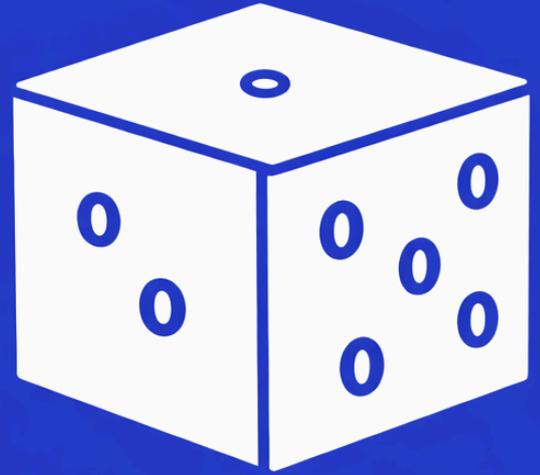


# GCSE Foundation Half Practice Paper

Paper 1a  
Calculator

# LUCKY MATHS



More papers



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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

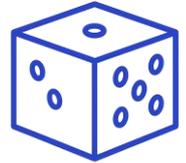
## Disclaimer:

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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** Change 5 weeks into days.

.....days

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

---

**2** Simplify  $4 \times 2y$ .

.....

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

---

**3** Change 0.2 into a percentage.

.....%

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

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**4** Put the following decimals in ascending order:

0.205, 0.2, 0.27, 0.02

.....

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

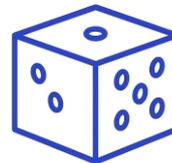
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**5** Write down a sensible metric unit that could be used to measure the length of a car.

.....

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

---



- 6 A prize fund of **£84** is shared between **four people**.  
One person receives **£36**.  
The other three people receive the **same amount**.

Work out how much **each** of the other three people receives.

£.....

(Total for Question 6 is 3 marks)

---

- 7 Here is a rule for working out the total cost of hiring bicycles.  
**Cost = £24 × number of bicycles**

(a) Work out the total cost of hiring **12 bicycles**.

£.....

(2)

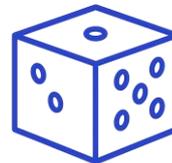
- (b) A group hires some bicycles.  
The total cost is **£312**.  
Work out the number of bicycles hired.

.....

(2)

(Total for Question 7 is 4 marks)

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8 Here are the numbers of **books read by 10 students** in one month.

7 14 6 6 8 5 6 10 11 14

(a) Find the **median**.

.....

(2)

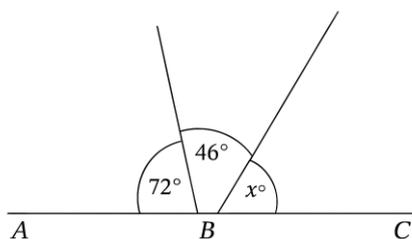
(b) Work out the **mean**.

.....

(2)

(Total for Question 8 is 4 marks)

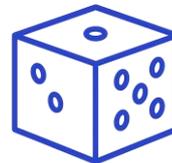
9 ABC is a straight line



(a) Work of the value of angle  $x$

.....

(2)



(b) Give a reason for your answer

.....

(1)

(Total for Question 9 is 3 marks)

- 10 A school club has **120 students**.  
They can choose one of these activities: **Football, Netball, or Swimming**.

**40 students play football.**

There are **65 girls in total**.

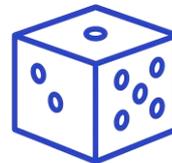
Of the **38 students who swim, 21 are girls**.

**Twice as many girls** play netball than **boys**.

	<b>Football</b>	<b>Netball</b>	<b>Swimming</b>	<b>Total</b>
<b>Boys</b>				
<b>Girls</b>				
<b>Total</b>				120

(a) Complete the two way table

(3)



(b) One of the students is chosen at random.  
Work out the probability that this student is a **girl** who **swims**.

.....

(1)

(Total for Question 10 is 4 marks)

---

**11** Maya drives her car for **95 minutes**.  
She stops for a rest.  
Maya then drives for a further **70 minutes**.

(a) Show that Maya drives for less than 3 hours in total.

.....

(2)

A van travels for **3 hours** at a steady **speed of 55 mph**.

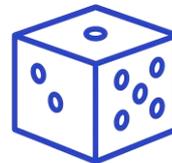
(b) Work out the distance the van travels.

.....

(2)

(Total for Question 11 is 4 marks)

---



- 12** A school needs a **new computer system**.  
The cost of the computer system is **£7,200**.  
A government grant will **pay 80%** of this cost.  
The school will pay the **rest of the cost**.  
Work out how much the school will pay.

.....

**(3)**

**(Total for Question 12 is 3 marks)**

---

- 13** Aisha, Ben and Chloe share **£4,800** in the ratio **3 : 4 : 5**.  
Work out how much money **each person receives**.

Aisha: £.....

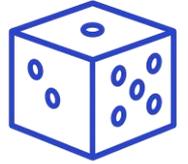
Ben: £.....

Chloe: £.....

**(3)**

**(Total for Question 13 is 3 marks)**

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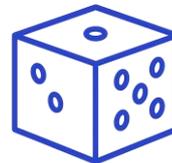
14 Solve  $2(2k+1)=9$

$k=$ .....

**(3)**

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

---



15 There are **30 marbles in a bag**.

There are:

- 10 red marbles
- 12 blue marbles
- 8 green marbles

Liam adds **10 more marbles** to the bag.

These marbles are **either red or blue**.

Liam is going to pick **one marble at random** from the bag.

The **probability** that this marble will be **blue** is  $\frac{1}{2}$ .

How **many more** red marbles did Liam **add** to the bag?

You must show all your working.

.....

(4)

(Total for Question 15 is 4 marks)

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TOTAL FOR PAPER IS 40 MARKS