

# GCSE Foundation Half Practice Paper 2a

# LUCKY MATHS



More papers



Solutions



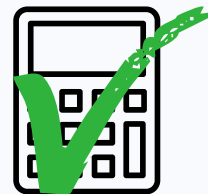
## Instructions

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

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 **24 586** correct to the **nearest thousand**.

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

- 2 Write **0.75** as a fraction.

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

- 3 Change **875 centimetres** into metres.

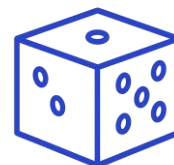
.....m  
(Total for Question 3 is 1 mark)

- 4 Simplify  $5 \times 3g$

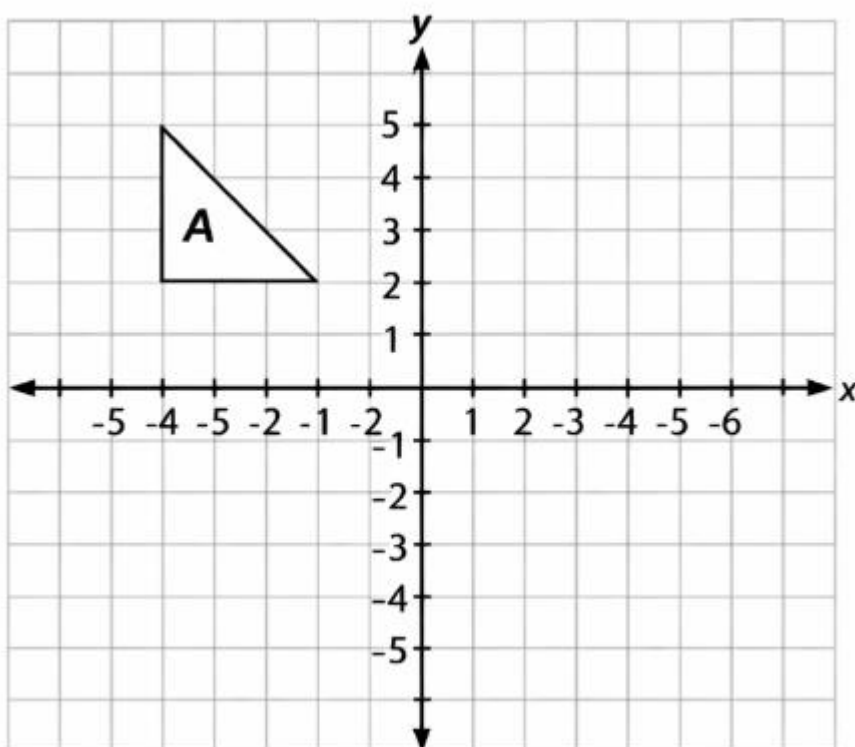
.....  
(Total for Question 4 is 1 mark)

- 5 Here is a list of numbers:  
48, 72, 96, 108, 144  
One of these numbers is **not** a **multiple** of **24**.  
Which number?

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



- 6 The shape **A** is shown on the grid below.



- (a) Rotate shape **A** **90° clockwise** about the **origin**. Draw the rotated shape on the grid.

(2)

- (b) Reflect shape **A** in the **x-axis**. Draw the reflected shape on the grid.

(2)

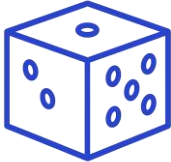
(Total for Question 6 is 4 marks)

- 7 **Reuben** thinks of a number.  
He **multiplies his number by 4** and then **adds 9**.  
His final answer is **61**.  
What number did Reuben think of?

.....

(3)

(Total for Question 7 is 3 marks)



8 Here are the ingredients needed to make **15 cookies**:

| Ingredient | Amount for 15 cookies |
|------------|-----------------------|
| Butter     | 180 g                 |
| Sugar      | 75 g                  |
| Flour      | 260 g                 |

Liezl has:

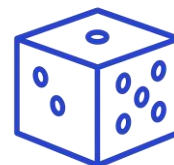
- 550 g of butter
- 310 g of sugar
- 900 g of flour

Work out the **greatest number of cookies Liezl can make**.  
You must show all your working.

.....

(3)

(Total for Question 8 is 3 marks)



9 Here is a list of numbers:

7 5 2 8 5 1 6

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

.....  
(2)

(b) **Pat** picks **one number at random** from the list.  
What is the probability that she picks an **even number**?

.....  
(1)

(Total for Question 9 is 3 marks)

10 Here is a number machine.

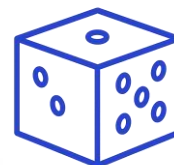


(a) Work out the **output** when the **input** is 9.

.....  
(1)

(b) Work out the **input** when the **output** is 61.

.....  
(2)



Here is a different number machine.



When the input is **5**, the output is **44**.

(c) Complete the number machine by finding the missing operation

.....  
(1)

(Total for Question 10 is 4 marks)

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**11** There are **90 calories** in **100 g** of **apple**.

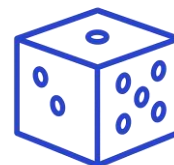
There are **120 calories** in **100 g** of **cereal**.

Chantelle has **80 g of apple** and **125 g of cereal** for breakfast.  
Work out the **total number of calories** in Chantelle's breakfast.

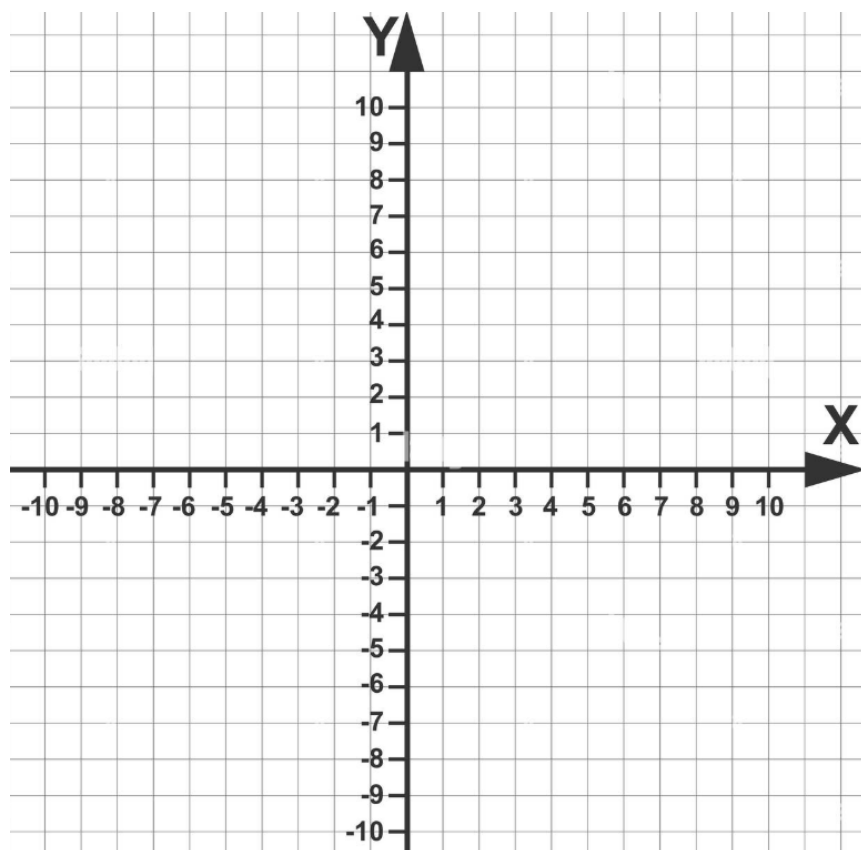
.....  
(4)

(Total for Question 11 is 4 marks)

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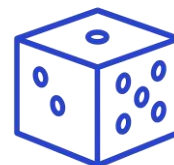
- 12 On the grid below, draw the graph of  $y = 2x - 1$  for values of  $x$  from -2 to 3.



(3)

(Total for Question 12 is 3 marks)

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- 13** A store sells juice in **500 ml bottles** and **1.25 litre bottles**.

One day, the store has two special offers:

- **3 × 500 ml bottles for £4.80**
- **2 × 1.25 litre bottles for £10.50**

Which offer gives the **cheaper price per litre**?

You must show all your working.

.....  
(4)

(Total for Question 13 is 4 marks)

- 
- 14** **Alex** invests **£3,200** in a savings account for **4 years**.

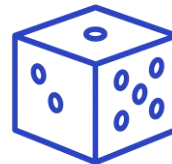
The account pays **simple interest** at a rate of **2.5% per year**.

Work out the **total amount of interest** Alex earns by the end of the 4 years.

.....  
(3)

(Total for Question 14 is 3 marks)





**15** Ella and Jake have a total of **300 stickers**.

The ratio of the number of **Ella's stickers** to the number of **Jake's stickers** is **4:6**.

Ella buys some stickers from Jake.

The ratio of the number of **Ella's stickers** to the number of **Jake's stickers** is now **5:7**.

How many stickers does Ella **buy** from Jake?

You must show all your working.

.....  
(4)

(Total for Question 15 is 4 marks)

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**TOTAL FOR PAPER IS 40 MARKS**