

GCSE Foundation Full Practice Paper

Paper 1 - Set 1
Non-Calculator

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 80



Materials

Black pen

Pencil

Ruler

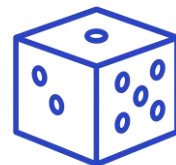
Disclaimer:

The practice papers created by Lucky Maths are designed for revision and educational support only.

While every effort has been made to ensure accuracy and alignment with typical exam standards, these materials are not official exam papers and are not endorsed by any examination board.

Lucky Maths accepts no responsibility for any errors, omissions, or changes to official curriculum or exam specifications.

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 Simplify: $4q - q$

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

- 2 Write **0.607** as a fraction in its simplest form.

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

- 3 Convert **2500 millilitres** into litres.

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

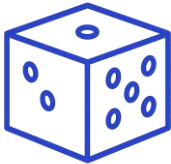
- 4 Write down a **factor of 36** that is **greater than 6**.

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

- 5 A shape has **five sides**.

What is the **mathematical** name of this shape

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



6 A farm records the number of **apples** and **pears** sold in **three weeks**.

≡ Week	≡ Apples	≡ Pears
1	84	45
2	76	52
3	90	40

(a) Work out the **total number** of **apples** and **pears** sold in **Week 3**

.....

(1)

(b) The farmer says:

"I sold more than **twice as many apples** as pears altogether."

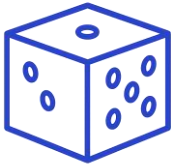
Is the farmer **correct**?

Show working.

.....

(3)

(Total for Question 6 is 4 marks)



7 A school tuck shop records how many **snacks** were sold on **one day**.

The information is shown in this **pictogram**.

☰ Snack Type	☰ Number of Snacks
1 Crisps	
2 Fruit	
3 Biscuits	
4 Cakes	

Key:  = 4 snacks

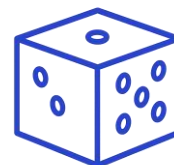
(a) How many **fruit snacks** were sold?

.....
(2)

(b) Show that the **total** number of snacks sold is **less than 60**.

.....
(3)

(Total for Question 7 is 5 marks)



8 A necklace is made using **red** beads and **blue** beads in the ratio **3 : 5**.

(a) If there are **18 red beads**, how many blue beads are needed?

.....

(1)

(b) What **fraction** of all the beads are **red**?

.....

(1)

(Total for Question 8 is 2 marks)

9 Brad is **$n + 4$** years old.

(a) Write an **expression** for Albert's age if Albert is **2 years younger than Brad**

.....

(2)

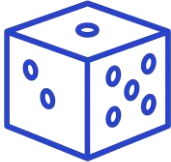
Vivek is **twice as old as Brad**

(b) Write an **expression** for Vivek's age in terms of **n**

.....

(2)

(Total for Question 9 is 4 marks)



10 (a) Round **52,983** to the nearest **1,000**

.....

(1)

(b) Estimate **113 ÷ 4.9**

.....

(2)

(Total for Question 10 is 3 marks)

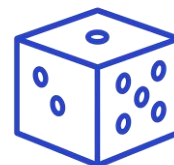
11 Part of a train **timetable** between **Town X** and **Town Z** is shown

≡ Stop	≡ Train A	≡ Train B	≡ Train C
1 X	06:55	07:20	08:00
2 Y	07:18	07:44	08:26
3 Z	07:40	08:05	08:55

(a) Which train takes the **shortest** time from X to Y?

.....

(3)



(b) Reuben **arrives** at **stop Y** at 07:30.

He wants the **next** train to **stop Z**.

This train is **delayed** by **12 minutes**.

How long must Reuben wait?

.....

(2)

(Total for Question 11 is 5 marks)

12 (a) Work out:

$$\frac{3}{5} + \frac{2}{15}$$

.....

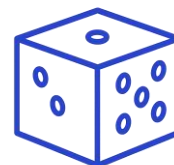
(2)

(b) Work out: $\frac{1}{3}$ of 45

.....

(2)

(Total for Question 12 is 4 marks)



13 A shop **reduces** all prices by **12%** during a sale.

A jacket normally costs **£48**.

(a) Work out the **amount** of the discount.

.....

(1)

(b) Work out the **sale** price of the jacket

.....

(2)

(Total for Question 13 is 3 marks)

14 A field is **1500 metres** long.

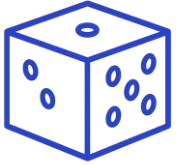
On a map the scale is **1 : 25 000**.

Work out the **length** on the map in **centimetres**.

.....

(3)

(Total for Question 14 is 3 marks)



15 Work out: 4.2×19

.....

(3)

(Total for Question 14 is 3 marks)

16 A number is **increased** by 3 and the result is then **multiplied** by 5. The final answer is 60.

(a) Write an **equation** to represent this information.

.....

(1)

(b) Solve the **equation** to find the **original** number.

.....

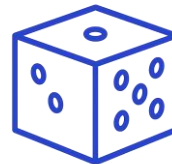
(2)

(c) Check your answer by **substituting** back into the **expression**.

.....

(1)

(Total for Question 16 is 4 marks)



17 A recipe for **6 smoothies** uses:

- 240 ml juice
- 90 g banana
- 60 g yoghurt
- 1 teaspoon honey

Jasmine wants to make **15 smoothies**. She has:

- 600 ml juice
- 230 g banana
- 160 g yoghurt
- 3 teaspoons honey

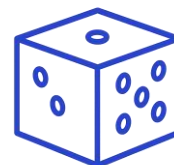
Does Jasmine have **enough** ingredients?

Show all working.

.....

(4)

(Total for Question 17 is 4 marks)



18 Here are the test scores of **12 pupils**:

34, 29, 41, 37, 33, 28, 42, 39, 31, 36, 30, 38

Show this information in a **stem-and-leaf diagram**.

Include a key.

.....

(3)

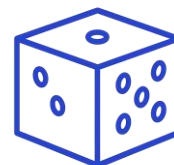
(Total for Question 18 is 3 marks)

19 Find the HCF of **40** and **64**.

.....

(2)

(Total for Question 19 is 2 marks)



20 A bag contains only **green, orange, pink,** and **black** cubes.

The probability of selecting a green cube is **0.2**.

The probability of selecting an orange cube is **0.24**.

There are **three times as many black cubes as pink cubes**.

(a) Work out the **probability** of selecting a **pink** cube.

.....

(3)

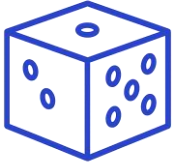
There are **40 green cubes**.

(b) Work out the **total number** of cubes in the bag

.....

(2)

(Total for Question 20 is 5 marks)



21 A pack contains **10 bottles** of water.

Each bottle contains **500 ml**.

(a) What is the total **volume** in **ml**?

.....ml

(2)

(b) Convert your answer to **litres**.

.....l

(2)

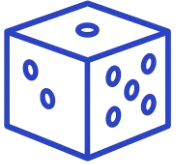
(Total for Question 21 is 4 marks)

22 A factory packs **12 boxes** of pens in **18 minutes**.

(a) How long does it take to pack **1 box**?

.....minutes

(1)



(b) How long will it take to pack **30 boxes**?

.....minutes

(2)

(Total for Question 22 is 3 marks)

23 A drink mix is made using **water : juice = 5 : 2**

You use **350 ml of water**.

(a) How many **millilitres** of juice should you use?

.....ml

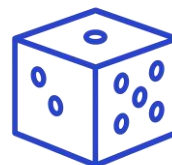
(3)

(b) What is the **total volume** of the drink?

.....

(2)

(Total for Question 23 is 5 marks)



24 Solve: $4(3x - 2) = 40$

.....

(3)

(Total for Question 24 is 3 marks)

25 Solve the **simultaneous equation**:

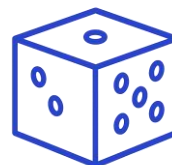
$$2x + y = 11$$

$$x - y = 1$$

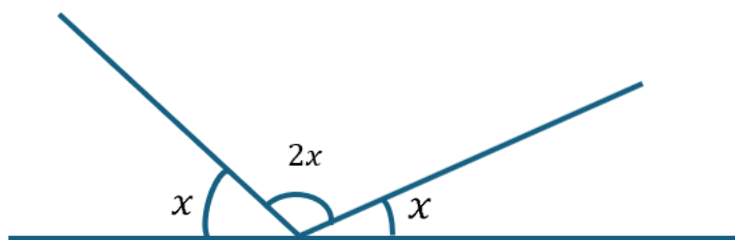
.....

(3)

(Total for Question 25 is 3 marks)



- 26 All of the angles are measured in degrees, **calculate** the value of x



.....
(3)

(Total for Question 26 is 3 marks)

TOTAL FOR PAPER IS 80 MARKS