

GCSE Foundation Half Practice Paper 1a

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

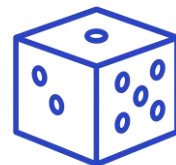
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Answer ALL questions.
Write your answers in the spaces provided.
You must write down all the stages in your working.

- 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)

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

0.205, 0.2, 0.27, 0.02

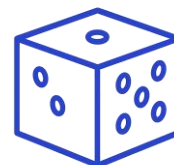
.....

(Total for Question 4 is 1 mark)

- 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**.

£.....

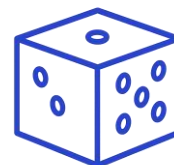
(2)

- (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)



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)

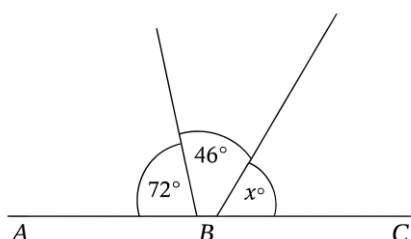
(b) Work out the **mean**.

.....

(2)

(Total for Question 8 is 4 marks)

9 ABC is a straight line



(a) Work of the value of angle x

.....

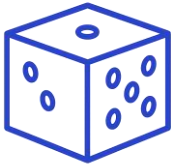
(2)

(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.

	Football	Netball	Swimming	Total
Boys				
Girls				
Total				120

(a) Complete the two way table

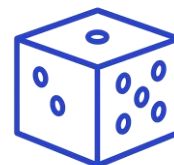
(3)

(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)

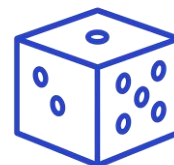
A van travels for **3 hours** at a steady **speed of 55 mph**.

(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)

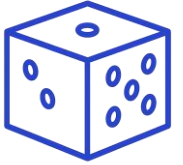
(Total for Question 13 is 3 marks)

- 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)

TOTAL FOR PAPER IS 40 MARKS