

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

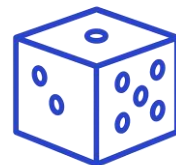
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Answer ALL questions.
Write your answers in the spaces provided.
You must write down all the stages in your working.

- 1** Write down the value of **6** in the number **3,462**.

.....

(Total for Question 1 is 1 mark)

- 2** Write **7.34** to **1 decimal place**.

.....

(Total for Question 2 is 1 mark)

- 3** Work out: 48.2×100

.....

(Total for Question 3 is 1 mark)

- 4** Write the fraction $\frac{36}{90}$ in its **simplest form**.

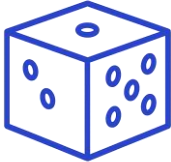
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(Total for Question 4 is 1 mark)

- 5** Write **18%** as a decimal.

.....

(Total for Question 5 is 1 mark)



6 A school records how many students attend an after school club during one week.

Day	Number of students	Key
Monday	<div><div></div><div></div></div>	
Tuesday	<div><div></div><div></div></div>	<div><div></div></div> = 10 students
Wednesday	<div><div></div></div>	
Thursday	<div><div></div><div></div><div></div></div>	
Friday	<div><div></div><div></div></div>	

(a) Work out the **total number of students** who attended the club during this week.

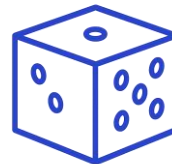
.....
(2)

(b) The following week, the number of students who attended on Friday was **three times** the number shown in the pictogram.

Work out **how many students** attended the club on **Friday** in the following week.

.....
(1)

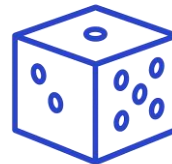
(Total for Question 6 is 3 marks)



- 7 **Vivek has five boxes of cereal.**
The total mass of the five boxes is **4 kilograms**.
Four of the boxes each have a mass of **720 grams**.
Work out the mass, in **grams**, of the remaining box.

.....
(3)

(Total for Question 7 is 3 marks)



8 **Simplify:**
(a) $4m \times 7n$

.....

Simplify:
(b) $6p + 3q + 2p - q$

(1)

.....

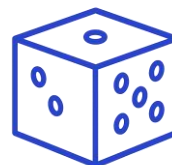
(2)

Expand and simplify:
(c) $4(2b + 3) + 2(b - 5)$

.....

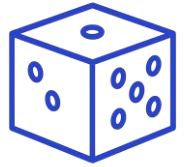
(2)

(Total for Question 8 is 5 marks)



9 Find the **Lowest Common Multiple** (LCM) of 108 and 120

.....
(Total for Question 9 is 3 marks)



10 Daniel is shopping while on holiday abroad.

He has **\$200** to spend on clothes.

Daniel buys:

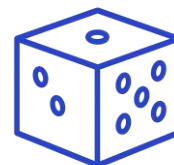
- 1 pair of trainers costing **\$60**
- 3 T-Shirts costing **\$25 each**

He would also like to buy a jacket costing **\$80**.

Does Daniel have enough money left to buy the jacket?

You must **show all your working**.

.....
(Total for Question 10 is 3 marks)



11 (a) Work out 54×28

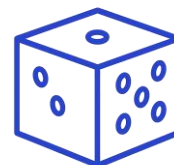
.....
(2)

(b) Work out $315 \div 5$

.....
(2)
(Total for Question 11 is 4 marks)

12 Work out $1\frac{3}{5} \times 2\frac{1}{4}$
Give your answer in its **simplest form**.

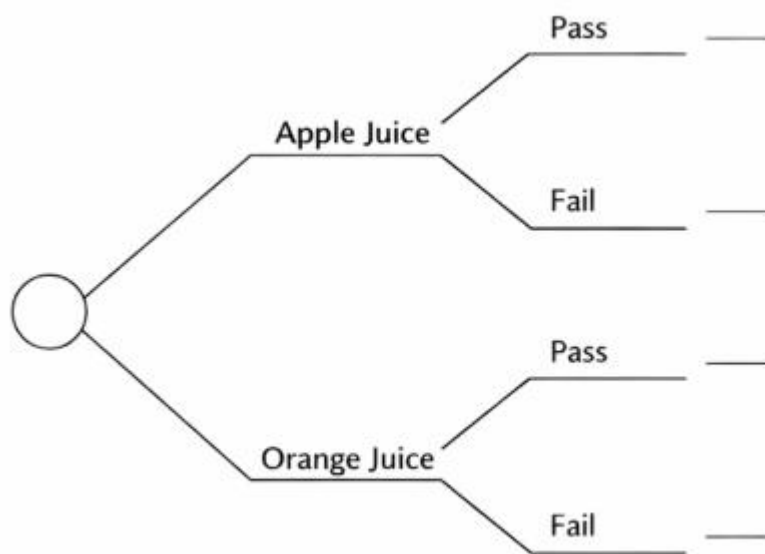
.....
(3)
(Total for Question 12 is 3 marks)



- 13 A machine fills bottles with either apple juice or orange juice.
- The probability that a bottle contains apple juice is **0.6**.

After filling, each bottle is checked.

- If the **bottle** contains **apple juice**, the probability that it **passes** the check is **0.8**.
- If the **bottle** contains **orange juice**, the probability that it **fails** the check is **0.3**.



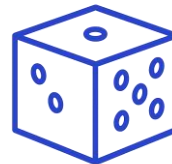
- (a) Complete the probability tree diagram showing all the **missing probabilities**.

.....
(2)

- (b) Work out the probability that a bottle of **apple juice** **passes** the check.

.....
(2)

(Total for Question 13 is 4 marks)



14 $y - 3 = 5$

Work out the value of $3y^2$.

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

15 A dance club has 80 members.

- Half of the members are **adults**.
- The number of adults is **4 times** the number of teenagers.
- The remaining members are **children**.

The ratio of the number of **children** to the number of **teenagers** is $n:1$.

Work out the value of n .

You must **show all your working**.

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

TOTAL FOR PAPER IS 40 MARKS