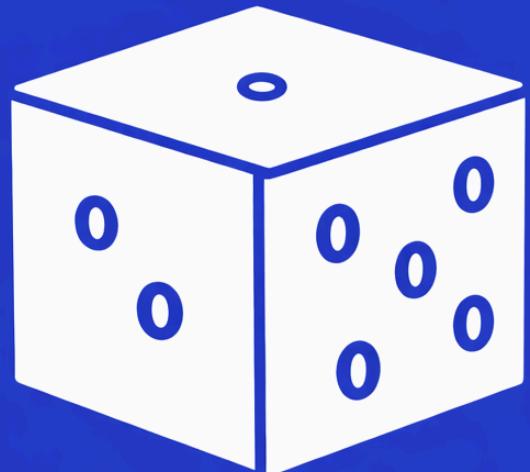


GCSE Foundation Half Practice Paper 2a

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:

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.

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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 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**.

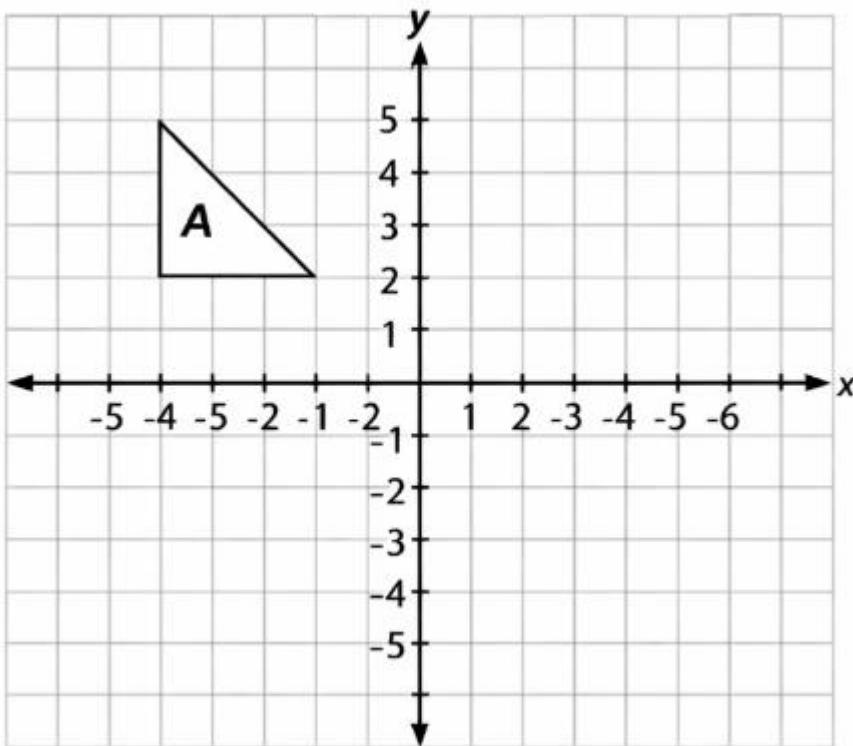
Which number?

.....

(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.

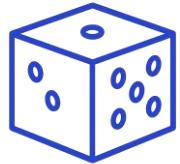
(2)

(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

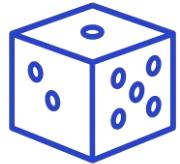
Work out the **greatest number of cookies Liezl can make**.

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.

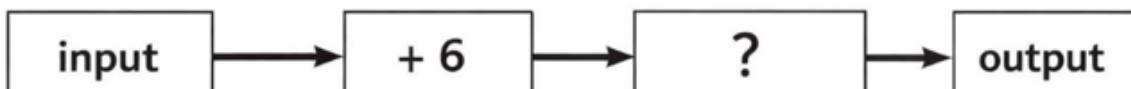
.....
(1)

(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)

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.

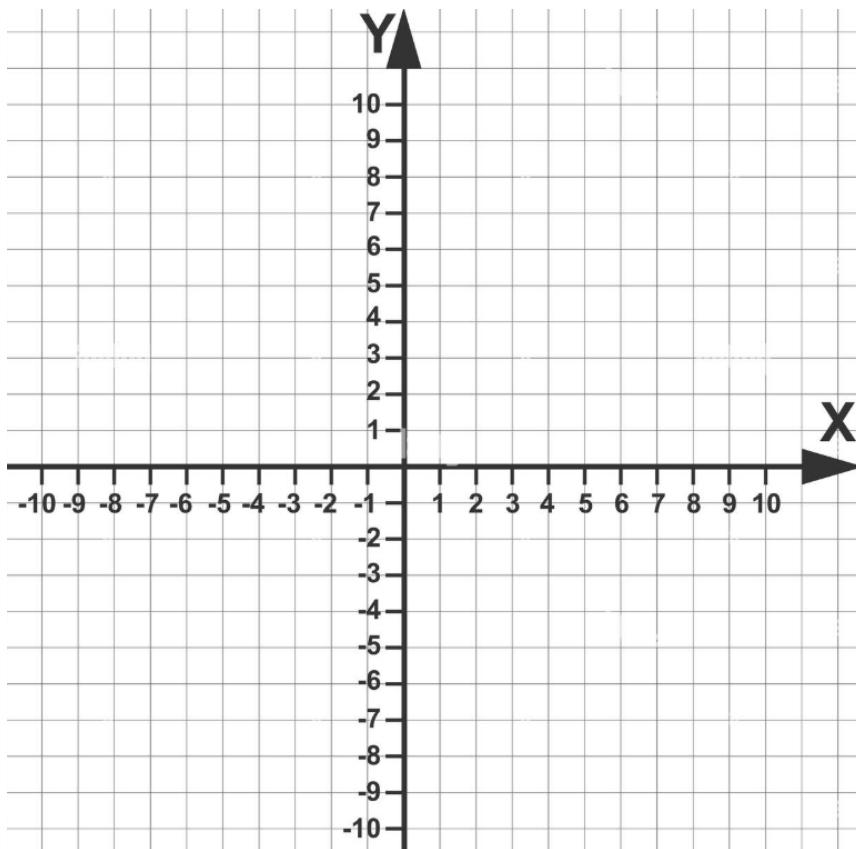
Work out the **total number of calories** in Chantelle's breakfast.

.....
(4)

(Total for Question 11 is 4 marks)

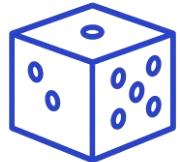


12 On the grid below, draw the graph of $y = 2x - 1$ for values of x from -2 to 3.



(3)

(Total for Question 12 is 3 marks)



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)

TOTAL FOR PAPER IS 40 MARKS