GCSE Foundation
Half Practice Paper 1b

LUCKY MATHS

More papers

SCAN ME

SCAN ME

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

Answer ALL questions.
Write your answers in the spaces provided.

You must write down all the stages in your working.

1 Write $\frac{1}{5}$ as a percentage

……%

(Total for Question 1 is 1 mark)

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2 Write down the value of 2^3

……

(Total for Question 2 is 1 mark)

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3 79% of the counters in a bag are blue.

What percentage of counters in the bag are not blue?

……%

(Total for Question 3 is 1 mark)

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4 Simplify 2 x 5t

……

(Total for Question 4 is 1 mark)

---

5 Write down the value of the number 6 in the number 2680

……

(Total for Question 5 is 1 mark)

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6 Reuben buys some drink bottles.
Each drinks bottle costs £3.50.
Reuben pays with a £20 note.
He receives £2.50 change.
Work out the number of drinks bottles Reuben buys.

.....

(Total for Question 6 is 3 marks)

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7 (a) Tom chooses at random a letter from the word FUNCTION.
On the probability scale below, mark with a cross (x) the probability that Tom chooses the letter N.

(1)

(b) On the probability scale below, mark with a cross (x) the probability that Tom chooses the letter Z.

(1)

(Total for Question 7 is 2 marks)

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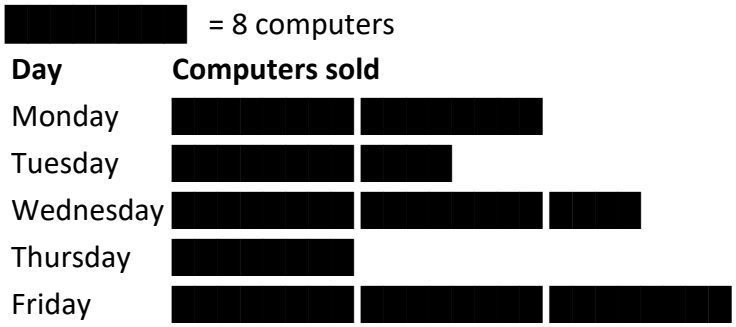
8 The pictogram below shows the number of computers sold in a shop on different days of the week.



(a) Which day had the **greatest number of computers sold**?

……

(1)

(b) How many computers were sold **altogether** from Monday to Friday?

……

(3)

(Total for Question 8 is 4 marks)

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9 The diagram below shows a **rectangular sandpit** drawn to scale. **1cm represents 5m**

(a) Work out the **real length** of the sandpit.

…… m
(1)

(b) Work out the **real width** of the sandpit.

…… m
(1)

(c) Work out the **real perimeter** of the sandpit.

……m
(2)

(Total for Question 9 is 4 marks)

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10 Here are the first 5 terms of a number sequence,
4 , 10 , 16 , 22 , 28

(a) Work out the 8^{th} term in the number sequence?

.....

(1)

(b) Write down an expression, in terms of *n*, for the *n*th term of the number sequence.

.....

(2)

(Total for Question 10 is 3 marks)

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11 t=2s-6

(a) Work out the value of t when s = 10.

.....

(2)

(b) Simplify 4f + 2e - 5f + e

.....

(2)

(Total for Question 11 is 4 marks)

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12 Ingredients for 12 cupcakes:

Sugar:	180 g
Flour:	240 g
Butter:	120 g

(a) A baker wants to make **18 cupcakes**.

How much **flour** will be needed?

.....g

(2)

(b) The baker has **500 g of butter**.

What is the **maximum number of cupcakes** they can make?

.....

(3)

(Total for Question 12 is 5 marks)

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13 (a) 124 x 65

.....

(2)

(b) 675 ÷ 15

.....

(2)

(Total for Question 13 is 4 marks)

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14 (a) Write 150 as a product of its prime factors.

.....

(2)

(b) Find the lowest common multiple (LCM) of 20 and 45.

.....

(2)

(Total for Question 14 is 4 marks)

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15 A bakery sells flour and sugar.

3 kg of flour costs £6.75.
4 kg of flour and 2 kg of sugar cost £14.30.
Work out the **cost of 1 kg of sugar**.
Give your answer in **pounds (£)**.

£.....
(Total for Question 15 is 3 marks)

TOTAL FOR PAPER IS 40 MARKS