

IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

Cambridge IGCSE™

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MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

For help, visit: [Cambridge International](https://www.cambridgeinternational.org)

Solved

INSTRUCTIONS

- Answer all questions.
- Use a pencil in this test paper. You may use an HB pencil for any diagrams or graphs.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answers to each question in the spaces provided.
- Do not use an erasable pen or correction fluid.
- Do not write on any bar codes.
- Any rough work should be done on separate paper.

1. The diagram shows the number of items in a box of 100 items, each of which is either a red or a blue item.

(a) Find the number of red items in the box. **Answer: 32** (4)

(b) Find the number of blue items in the box. **Answer: 68** (4)

2. The diagram shows three triangles, A, B and C.

(a) Find the size of the angle x . **Answer: 110°** (2)

(b) Find the size of the angle y . **Answer: 110°** (2)

3. The table shows the number of items in a box of 100 items, each of which is either a red or a blue item.

Item	Red	Blue
1	1	1
2	1	1
3	1	1
4	1	1
5	1	1
6	1	1
7	1	1
8	1	1
9	1	1
10	1	1

(a) Find the probability that a red item is chosen. **Answer: $\frac{1}{10}$** (1)

(b) Find the probability that a blue item is chosen. **Answer: $\frac{9}{10}$** (1)

(c) Find the probability that a red item is chosen and a blue item is chosen. **Answer: $\frac{9}{100}$** (1)

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Joacim Rocklöv



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