

# IGCSE MATHS

0580/22

PAPER 2

October November-22

Full Solution

## Cambridge IGCSE™

Candidate  
name

Candidate  
number

Candidate  
number

MATHEMATICS

Paper 2 (Extended)

0580/22

October/November 2022

1 hour 45 minutes

You must answer on the question paper.

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**Solved**

### INSTRUCTIONS

- Answer all questions.
- Use a pencil in both hand parts. 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.

(b) Find the number of blue items in the box.

(c) Find the number of items in the box which are neither red nor blue.

(d) Find the number of items in the box which are either red or blue.

(e) Find the number of items in the box which are neither red nor blue.

(f) Find the number of items in the box which are either red or blue.

(g) Find the number of items in the box which are neither red nor blue.

(h) Find the number of items in the box which are either red or blue.

(i) Find the number of items in the box which are neither red nor blue.

(j) Find the number of items in the box which are either red or blue.

(k) Find the number of items in the box which are neither red nor blue.

(l) Find the number of items in the box which are either red or blue.

(m) Find the number of items in the box which are neither red nor blue.

(n) Find the number of items in the box which are either red or blue.

(o) Find the number of items in the box which are neither red nor blue.

(p) Find the number of items in the box which are either red or blue.

(q) Find the number of items in the box which are neither red nor blue.

(r) Find the number of items in the box which are either red or blue.

(s) Find the number of items in the box which are neither red nor blue.

(t) Find the number of items in the box which are either red or blue.

(u) Find the number of items in the box which are neither red nor blue.

(v) Find the number of items in the box which are either red or blue.

(w) Find the number of items in the box which are neither red nor blue.

(x) Find the number of items in the box which are either red or blue.

(y) Find the number of items in the box which are neither red nor blue.

(z) Find the number of items in the box which are either red or blue.

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

Number of items	Number of items
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
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78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

(a) Find the number of items in the box which are either red or blue.

(b) Find the number of items in the box which are neither red nor blue.

(c) Find the number of items in the box which are either red or blue.

(d) Find the number of items in the box which are neither red nor blue.

(e) Find the number of items in the box which are either red or blue.

(f) Find the number of items in the box which are neither red nor blue.

(g) Find the number of items in the box which are either red or blue.

(h) Find the number of items in the box which are neither red nor blue.

(i) Find the number of items in the box which are either red or blue.

(j) Find the number of items in the box which are neither red nor blue.

(k) Find the number of items in the box which are either red or blue.

(l) Find the number of items in the box which are neither red nor blue.

(m) Find the number of items in the box which are either red or blue.

(n) Find the number of items in the box which are neither red nor blue.

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(y) Find the number of items in the box which are either red or blue.

(z) Find the number of items in the box which are neither red nor blue.

# Maths Igcse Winter 2013 0580 43

**Karen Morrison, Nick Hamshaw**



**Maths Igcse Winter 2013 0580 43:**

*Cambridge IGCSE® Mathematics Core and Extended Coursebook* Karen Morrison, Nick Hamshaw, 2018-03-15 This Cambridge IGCSE Mathematics Core and Extended series has been authored to meet the requirements of the Cambridge IGCSE Mathematics syllabus 0580 0980 for first examination from 2020 This second edition of Cambridge IGCSE Mathematics Core and Extended Coursebook offers complete coverage of the Cambridge IGCSE Mathematics 0580 0980 syllabus It contains detailed explanations and clear worked examples followed by practice exercises to allow students to consolidate the required mathematical skills The coursebook offers opportunities for checking prior knowledge before starting a new chapter and testing knowledge with end of chapter and exam practice exercises Core and Extended materials are presented within the same book and are clearly signposted to allow students to see the range of mathematics required for study at this level Answers are at the back of the book      *Cambridge IGCSE Mathematics Core and Extended Coursebook with CD-ROM* Karen Morrison, Nick Hamshaw, 2015-12-03 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015

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web default load balancing configuration the simplest configuration for load balancing with nginx may look like the following  
upstream myapp1 server srv1 example com server srv2 example com server srv3 example com server listen 80 location proxy  
pass myapp1

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web load balancing refers to efficiently distributing incoming network traffic across a group of backend servers also known as a server farm or server pool modern high traffic websites must serve hundreds of thousands if not millions of concurrent requests from users or clients and return the correct text images video or application data

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web server load balancing is a technology that enables your websites and applications to keep up the performance despite a high volume of traffic or sudden spikes it does so by sending or splitting the traffic over to various servers when this process is carried out globally it s called global server load balancing gslb

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web aug 11 2022 load balancers are infrastructure components which distribute incoming network traffic between multiple backend servers they improve capacity and add redundancy by keeping services accessible if one of your servers fails load

balancers act as the public gateway to your application

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web jul 25 2023 load balancing is the act of distributing incoming network traffic across backend servers to balance the amount of traffic across a pool of servers it allows applications to perform better by sending requests to multiple servers decreasing the burden of managing and maintaining network sessions

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web nov 5 2023 layer 4 load balancers prioritize routing to servers that are the least loaded based on the number of active connections how many requests the server is working on or their response times how busy the server is an example of an algorithm that is often used in layer 4 load balancing is known as round robin round robin works by routing

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web server side load balancers for internet services a server side load balancer is usually a software program that is listening on the port where external clients connect to access services the load balancer forwards requests to one of the backend servers which usually replies to the load balancer

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web in order to prevent a single server from becoming overloaded the load balancer routes requests to any number of available servers on premises or hosted in server farms or cloud data centers once the assigned server receives the request it responds to the client by way of the load balancer