



Cambridge International AS & A Level

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INFORMATION TECHNOLOGY

9626/13

Paper 1 Theory

May/June 2025

1 hour 45 minutes

You must answer on the question paper.

No additional materials are needed.

INSTRUCTIONS

- Answer **all** questions.
- Use a black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided.
- Do **not** use an erasable pen or correction fluid.
- Do **not** write on any bar codes.
- You may use an HB pencil for any diagrams, graphs or rough working.
- Calculators must **not** be used in this paper.

INFORMATION

- The total mark for this paper is 70.
- The number of marks for each question or part question is shown in brackets [].

This document has **16** pages. Any blank pages are indicated.



- 1 Observation is one method of collecting direct data.

Identify and describe **two** other ways of collecting direct data.

Way 1

Description

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Way 2

Description

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[4]





[5]

[6]

..... [3]

[3]

Identify and justify **three** types of test data that can be used to test this numerical data.

[6]

[6]



6 (a) Give reasons why a person editing a video would use fading effects.

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..... [2]

(b) Give reasons why a person editing a video would use captions.

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..... [2]



7

For marks above 70, the program will output “You have achieved a Distinction”.
For marks from 55 to 70, the program will output “You have achieved a Merit”.
For marks from 40 to 54, the program will output “You have achieved a Pass”.
For marks below 40, the program will output “You have not reached the Pass mark”.

Write a pseudocode algorithm using REPEAT...UNTIL which allows the teacher to input 20 test marks and outputs the correct message for each inputted mark.

[8]

[8]



8 Interpreters and device drivers are types of system software.

(a) Describe the functions of device drivers.

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..... [4]

(b) Justify the use of an interpreter.

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..... [4]



[5]



10 A student is considering defragmenting their hard disk.

(a) Describe the benefits of defragmentation.

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..... [3]

(b) Describe the drawbacks of defragmentation.

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..... [3]



..... [8]

[8]



12 Define the following types of database key fields:

(a) Composite key

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..... [1]

(b) Compound key

.....

..... [1]

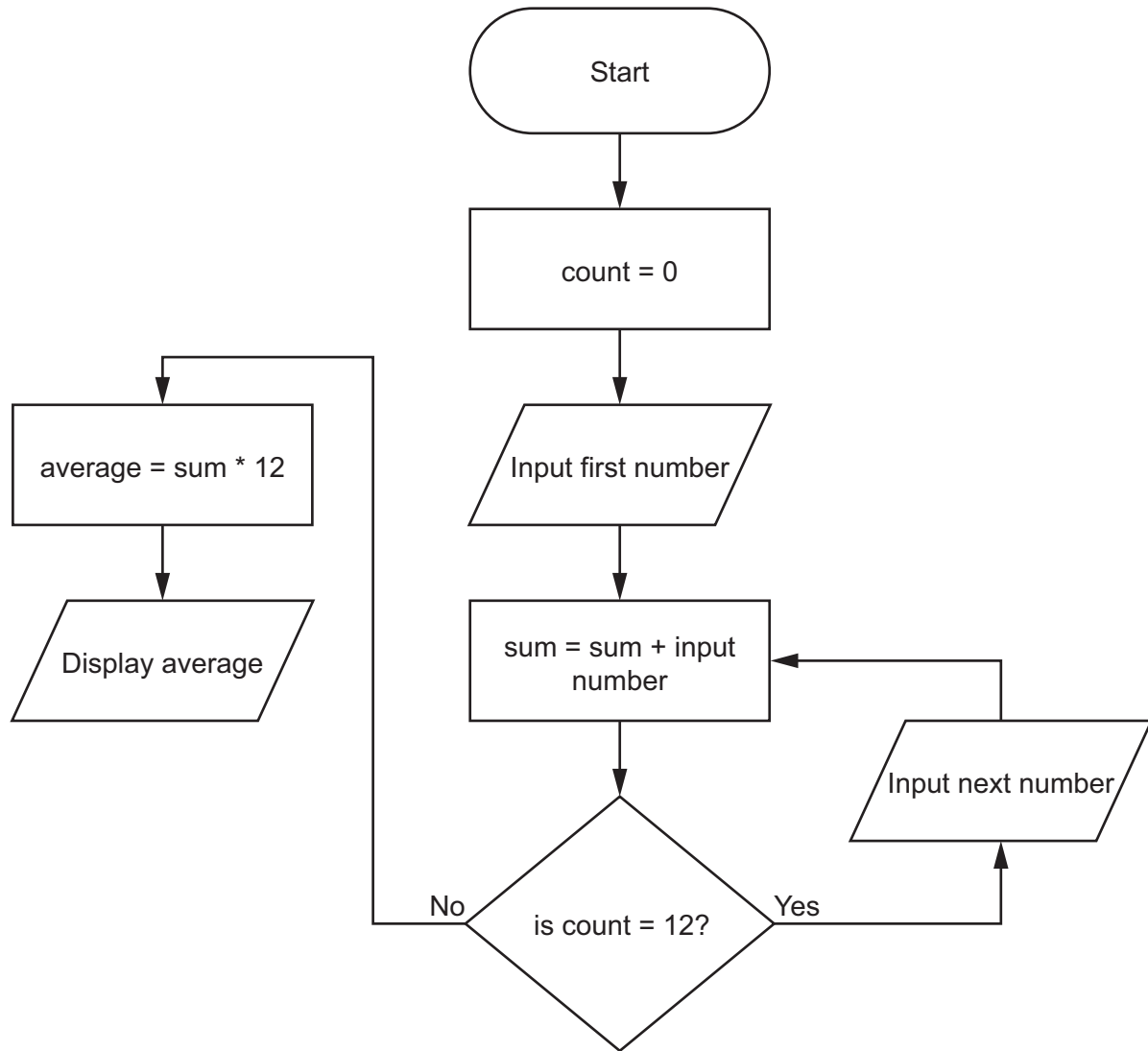




13 The average (mean) of a set of 12 numbers is calculated by:

- adding the numbers together to get a total
- dividing the total by 12.

A student has attempted to draw a flowchart of an algorithm which finds the average of 12 numbers. They have made some errors.





Redraw the flowchart, with the errors corrected.

[5]









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