



Cambridge International AS & A Level

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INFORMATION TECHNOLOGY

9626/32

Paper 3 Advanced Theory

October/November 2021

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 90.
- 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 Designers often use computer-aided design (CAD). Fig. 1.1 shows the design of a room.

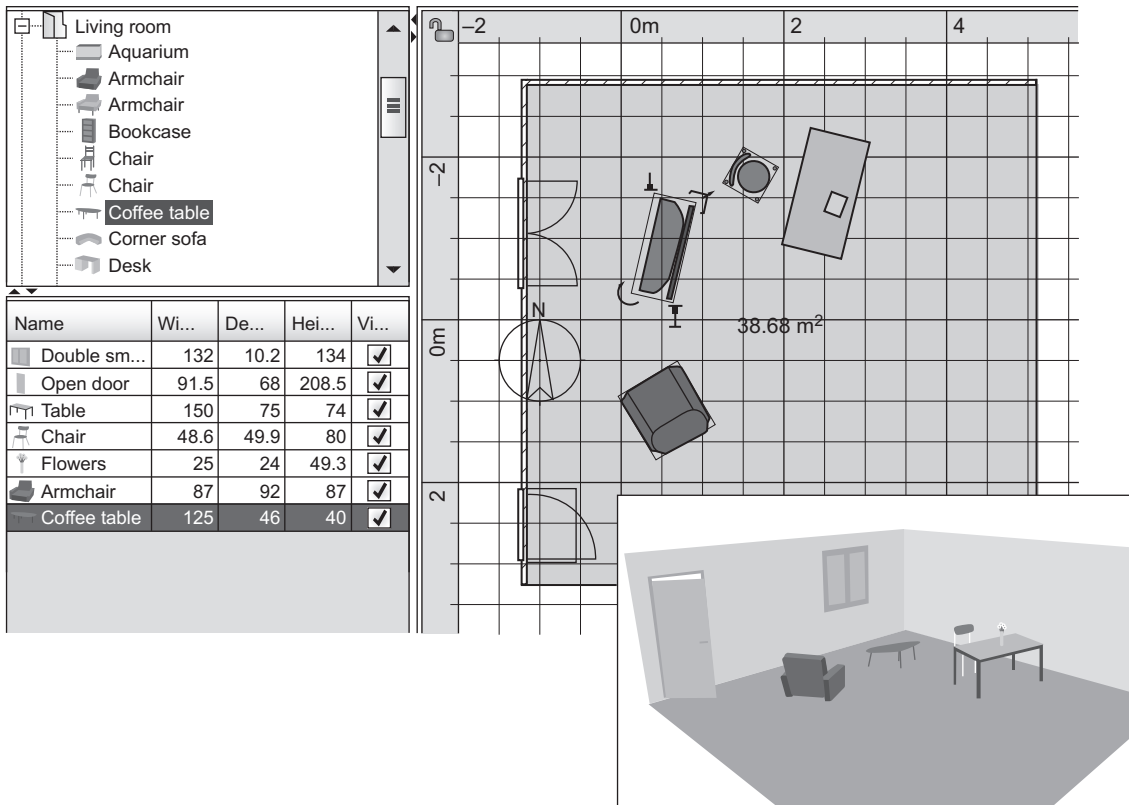


Fig. 1.1

Describe how the features of CAD software can be used to design the room.

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2 When beta testing a new software application, the tester found an error and created a report about the error.

Describe the items of information, including those related to the test plan, that should be included in the report.

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3 JavaScript is a programming language used within HTML on web pages.

Explain why it is considered good practice when coding in JavaScript to:

(a) place all declarations at the start of each script or function

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..... [2]

(b) initialise variables when first declared

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(c) avoid using `eval()` to run a string as code

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..... [1]

(d) always declare local variables.

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..... [1]

4 A photographer has used her smartphone to capture some images and wishes to transfer these images to her laptop for editing. She has decided to transfer the images using Bluetooth.

Describe the benefits and drawbacks of using Bluetooth to transfer the images.

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12 The global positioning system (GPS) is a network of satellites orbiting the Earth. It is used by devices such as a 'satnav' in a delivery vehicle that assists the driver in finding destinations.

(a) Describe the benefits and drawbacks of the use of a satnav with GPS by the driver of a delivery vehicle.

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(b) Explain why the satnav may not be able to provide an accurate location.

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(c) The global positioning system (GPS) can be used by satnavs in vehicles and by the military.

Describe **three other** ways that GPS may be used.

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..... [3]

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