

4. This question is about the Design Process and how it is used. It is worth a total of 25 marks.

(a) The designing process includes the stages listed below.

Developing Presenting the solution Researching Planning the make

(i) State which of the stages listed above would be done first. [1]

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(ii) State which of the stages listed above would be done last. [1]

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(b) Suggestions for improvements to the product are made at the end of the design process. Give **one** reason for suggesting how the product may be improved. [2]

Reason:

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(c) Explain how product analysis helps a designer write a design specification. [3]

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- (d) The Two Trees Hotel wishes to place two chocolates in its bedrooms as a gift for customers. The chocolates are to be in a small card box. Each of the chocolates is 25mm diameter and 20mm high.

A design for a card box is needed. The design for the card box must include:

- a suitable logo for the Two Trees Hotel;
- a suitable card box for the chocolates;
- the logo suitably positioned on the box;
- a method of opening and securely closing the box;
- a dimensioned **one** piece net for the box.

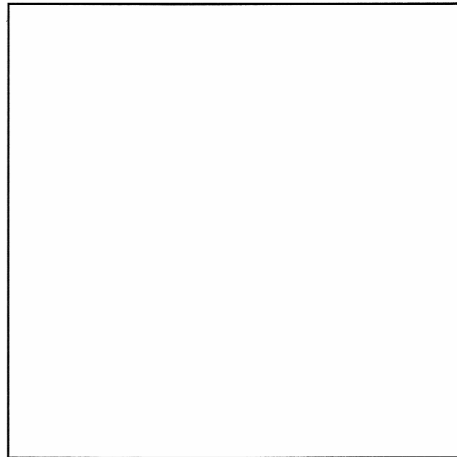
- (i) Design a logo for the hotel that:

- uses only **two** colours;
- is a symbol to represent the name of the hotel.

Marks will be awarded for:

- I. a symbol to represent the name of the hotel; [2]
II. using **two** colours; [1]
III. the quality of the presentation drawing. [3]

Draw your logo to fill the space below and show the colours used alongside the logo.



Colour 1

Colour 2

- (ii) Design a box that:
- will hold **two** chocolates each 25mm diameter and 20mm high;
 - has the logo suitably positioned on the box;
 - has a method of opening and securely closing the box;
 - is made from a **one** piece net.

Sketch and annotate your design for the box in the spaces below.
Marks will be awarded for:

- I. showing the sizes of the box so it will hold **two** chocolates; [2]
II. positioning the logo; [1]
III. a method of opening and securely closing the box; [3]
IV. showing a useable **one** piece net for the box; [3]
V. the quality of the communication. [3]

Your design for the box

Opening and closing the box

The **one** piece net (*Scale drawing not needed*)