A1 A gym membership card is shown below.

80

R6

isosceles
triangle
30 × 10

18

regular
octagon
40 AC

GYM MEMBERSHIP

Complete the drawing of the gym membership card
to a scale of 2:1 by adding:

(a)	the card outline	[2]
(b)	the isosceles triangle	[2]
(c)	the heart shape	[2]
(d)	the weights image	[2]
(e)	the title outline	[2]
(f)	the octagon.	[3]
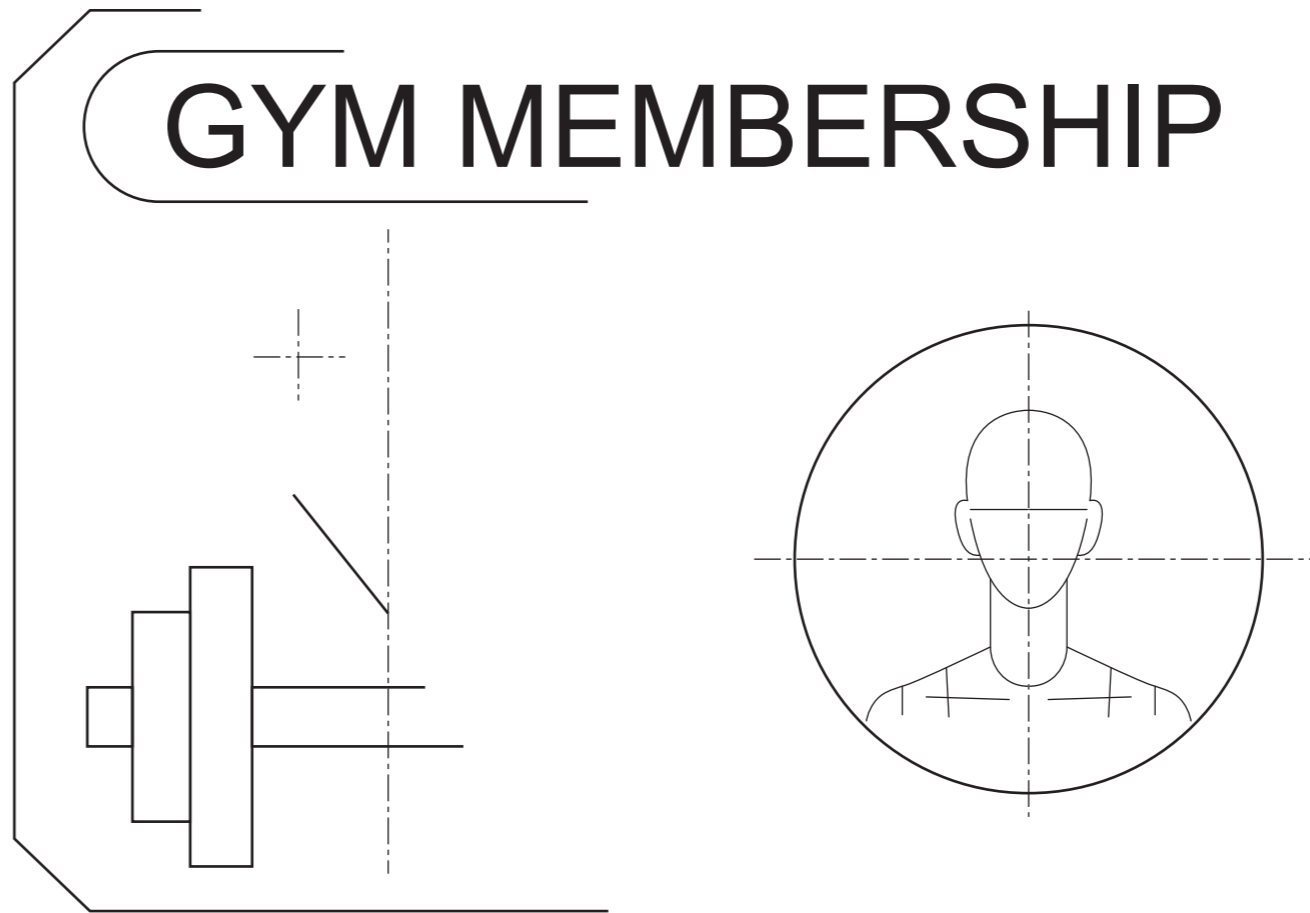
A2 (a) The membership cards are produced using a computer.

A photograph of the gym member needs to be added to the
membership card.

Explain how the photograph could be obtained and transferred
onto the membership card.

....

....

....

.... [3]

(b) The membership cards are printed onto thin plastic sheet.

(i) State **one** benefit of using thin plastic sheet for the membership cards.

....

.... [1]

(ii) Name a suitable thin plastic sheet that could be used to make the membership cards.

.... [1]

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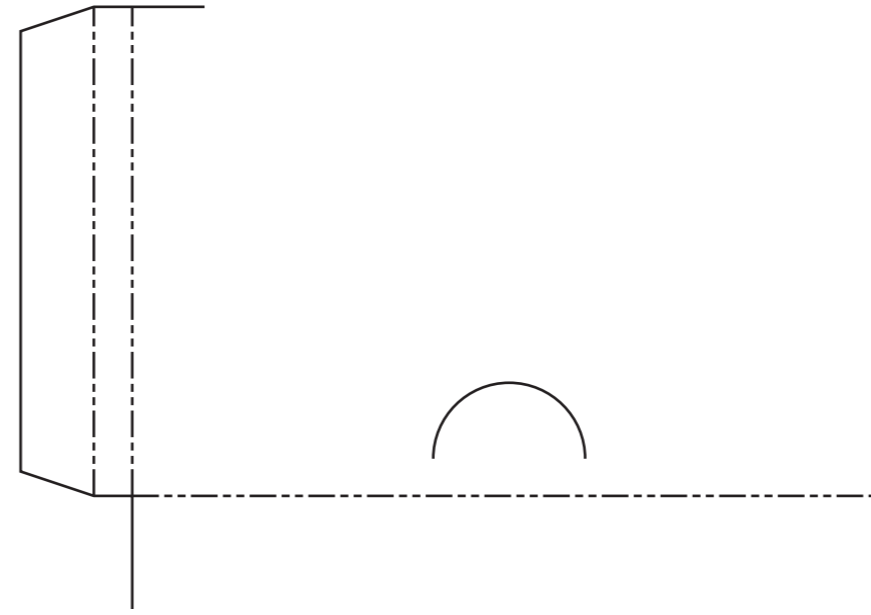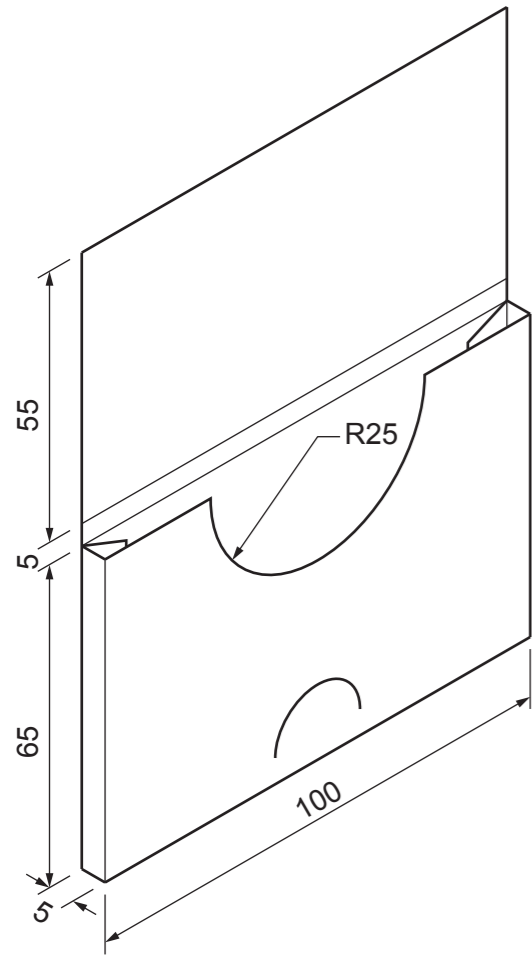
Sheet 1 of 2

A3 A wallet for holding the membership card is shown below.
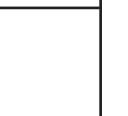
The wallet is made from thin card.

55

5

65

R25

100

5

Complete the full-size development (net) of the wallet. [7]
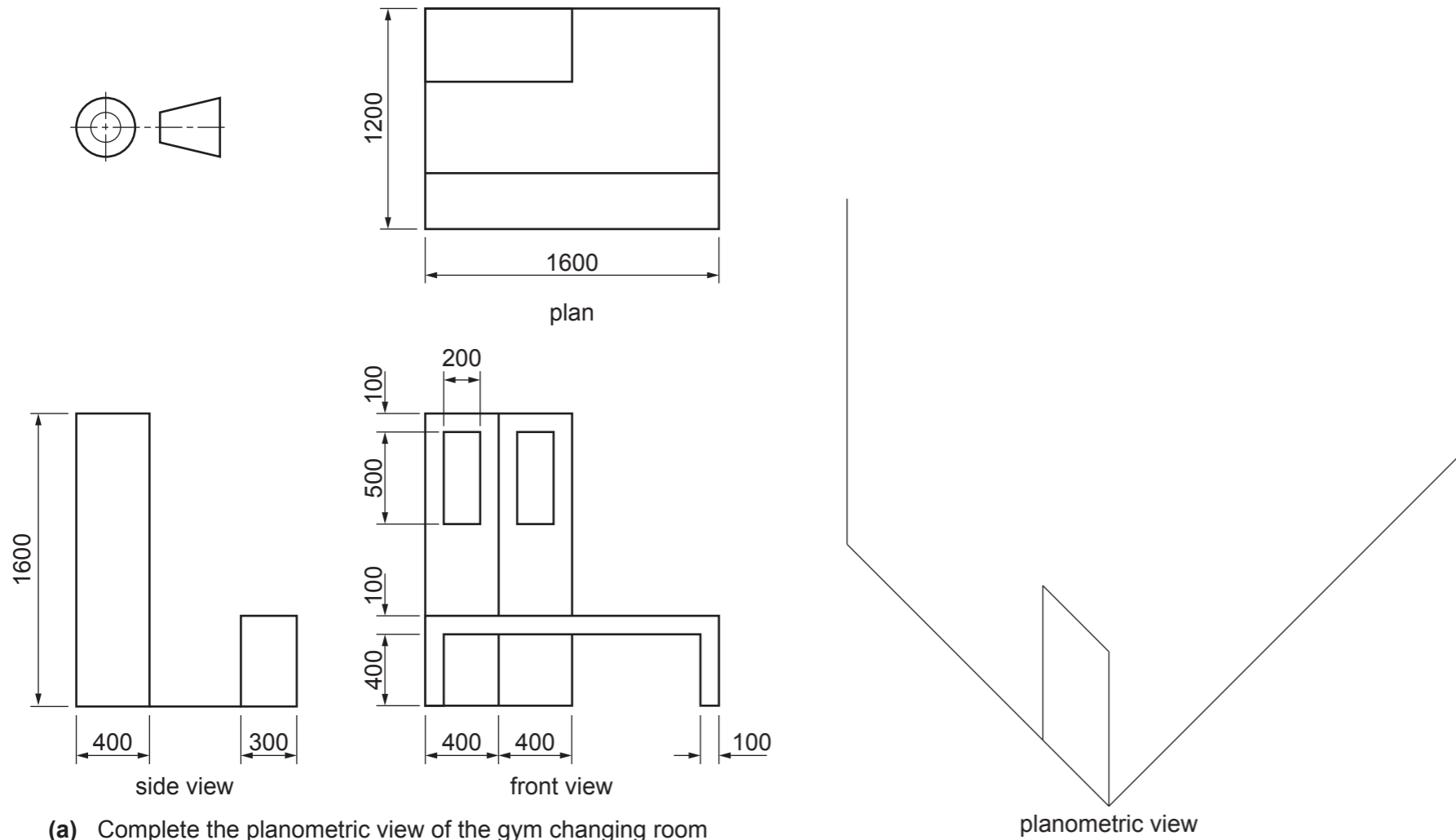
development (net)

Section B

Answer **one** question, **either** question **B4** or **B5**, from this section.

B4 Orthographic views of a gym changing room are shown below.

1200

1600

plan

200

100

500

100

400

1600

400   300

400   400

100

side view

front view

planometric view

(a) Complete the planometric view of the gym changing room to a scale of 1:20. [12]

(b) A clothes hanging rail is also used in the gym changing room.

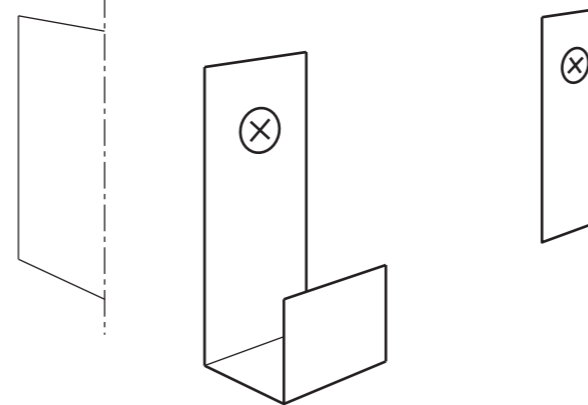The clothes hanging rail is made from hardwood and has two aluminium hooks.

One of the hooks and part of the clothes hanging rail are shown below.

hardwood rail
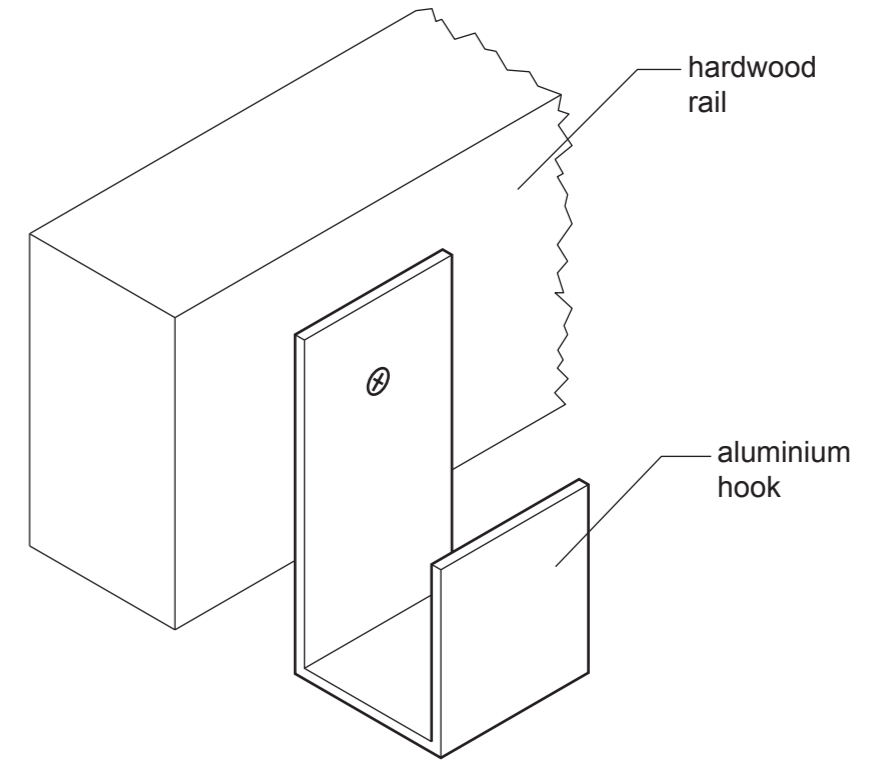
aluminium hook

(i) Render the rail to look like hardwood. [3]

(ii) Render the hook to look like aluminium [3]

VP 1

VP 2

(c) Complete the estimated two-point perspective view of the hanging rail and hooks. [7]

estimated two-point perspective view

For Examiner's use

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B5 An isometric view of a gym weight is shown below.

regular hexagons

10kg

plan
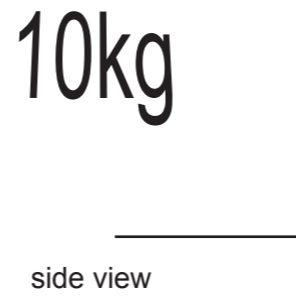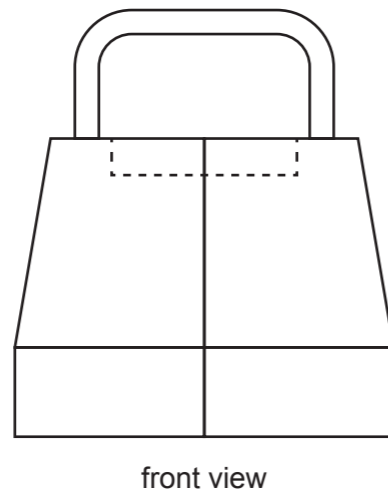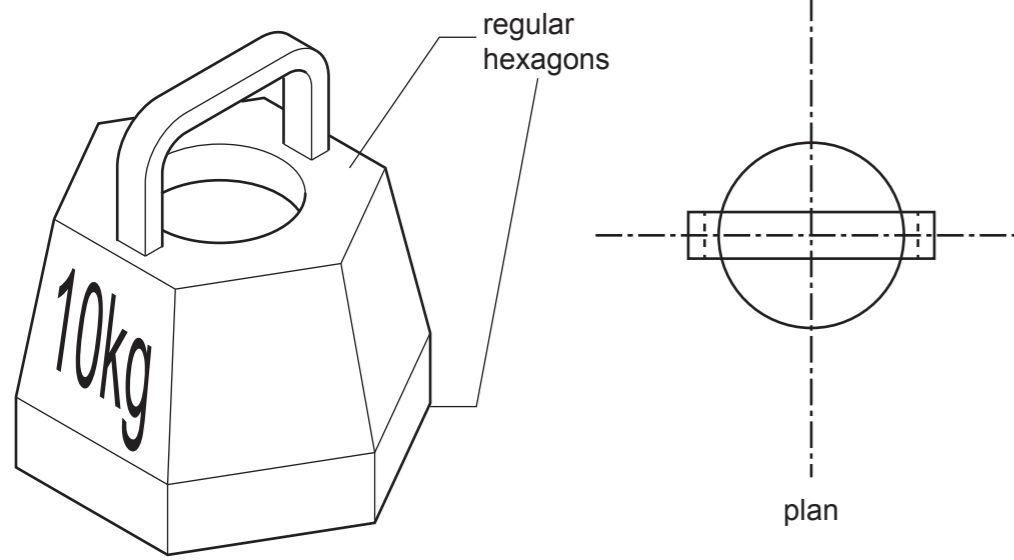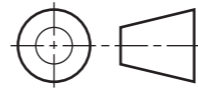
(a) Complete the orthographic views of the gym weight to a scale of 1:5. [13]

10kg

front view

side view

(b) A model of another gym weight is shown below.

(i) Apply thick and thin line technique to the model of the gym weight. [4]

cardboard tube

Styrofoam end blocks
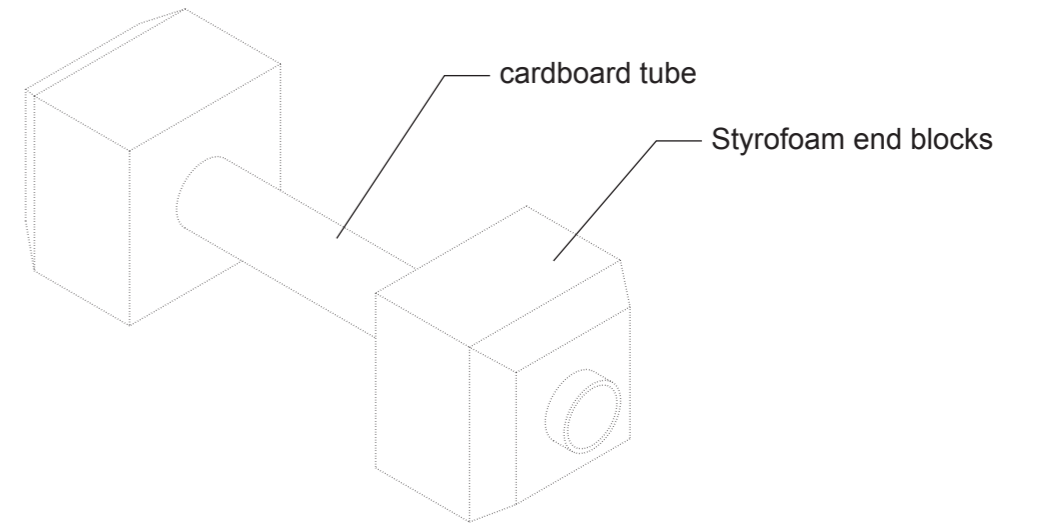
(ii) The model of the gym weight is made from Styrofoam blocks and cardboard tube.

Complete the table to show **one** tool/item of equipment for each stage of the making process. [2]

Process	Tool/item of equipment
Cutting the Styrofoam blocks to size	
Joining the Styrofoam blocks to the cardboard tube	

(c) The model of the gym weight is shown below.

A

100

50

140

100
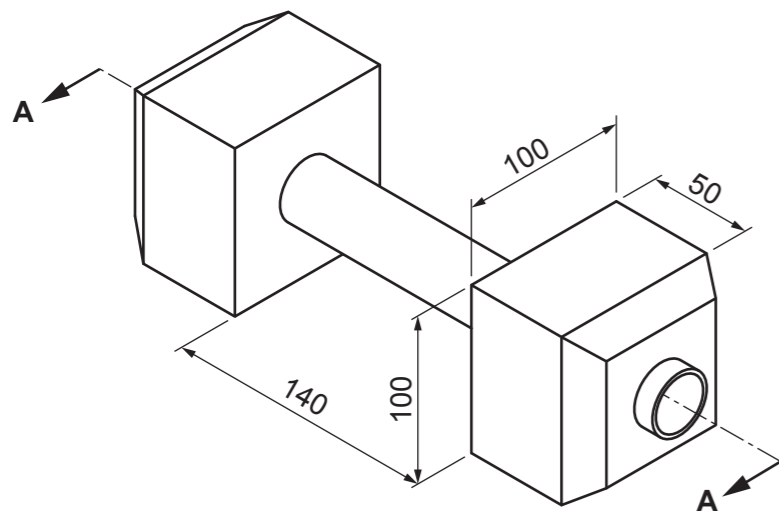
A

Complete the sectional view **A-A** through the model of the gym weight to a scale of 1:2. [6]

sectional view **A-A**