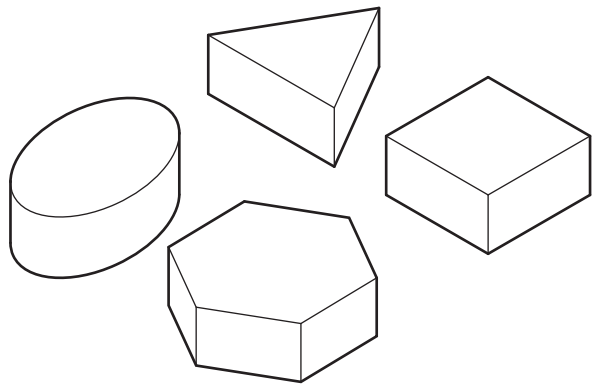
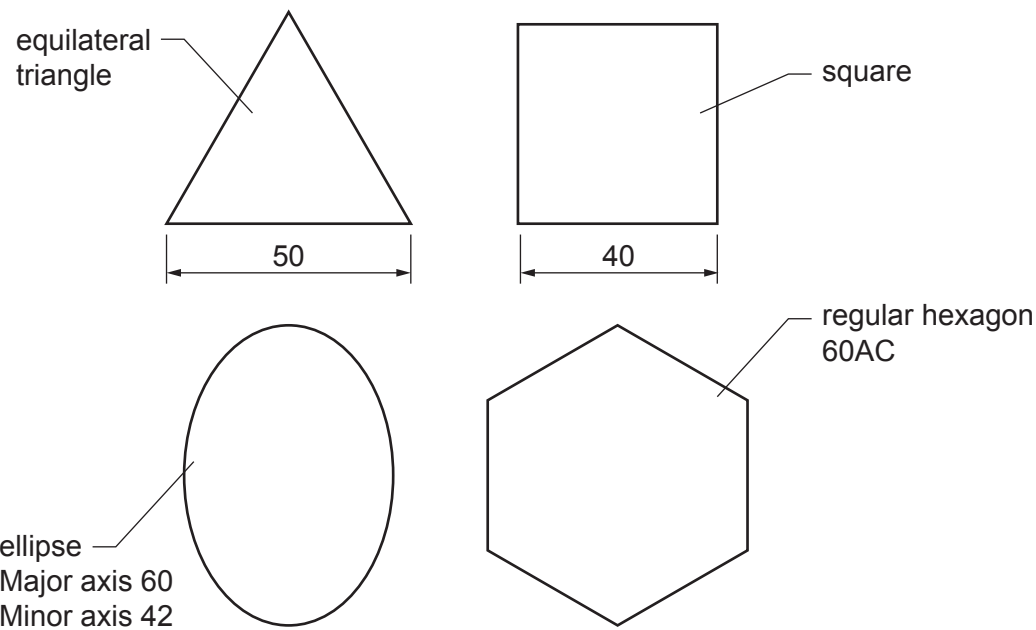


Section A
Answer **all** questions in this section.

A1 Four wooden blocks are shown below.

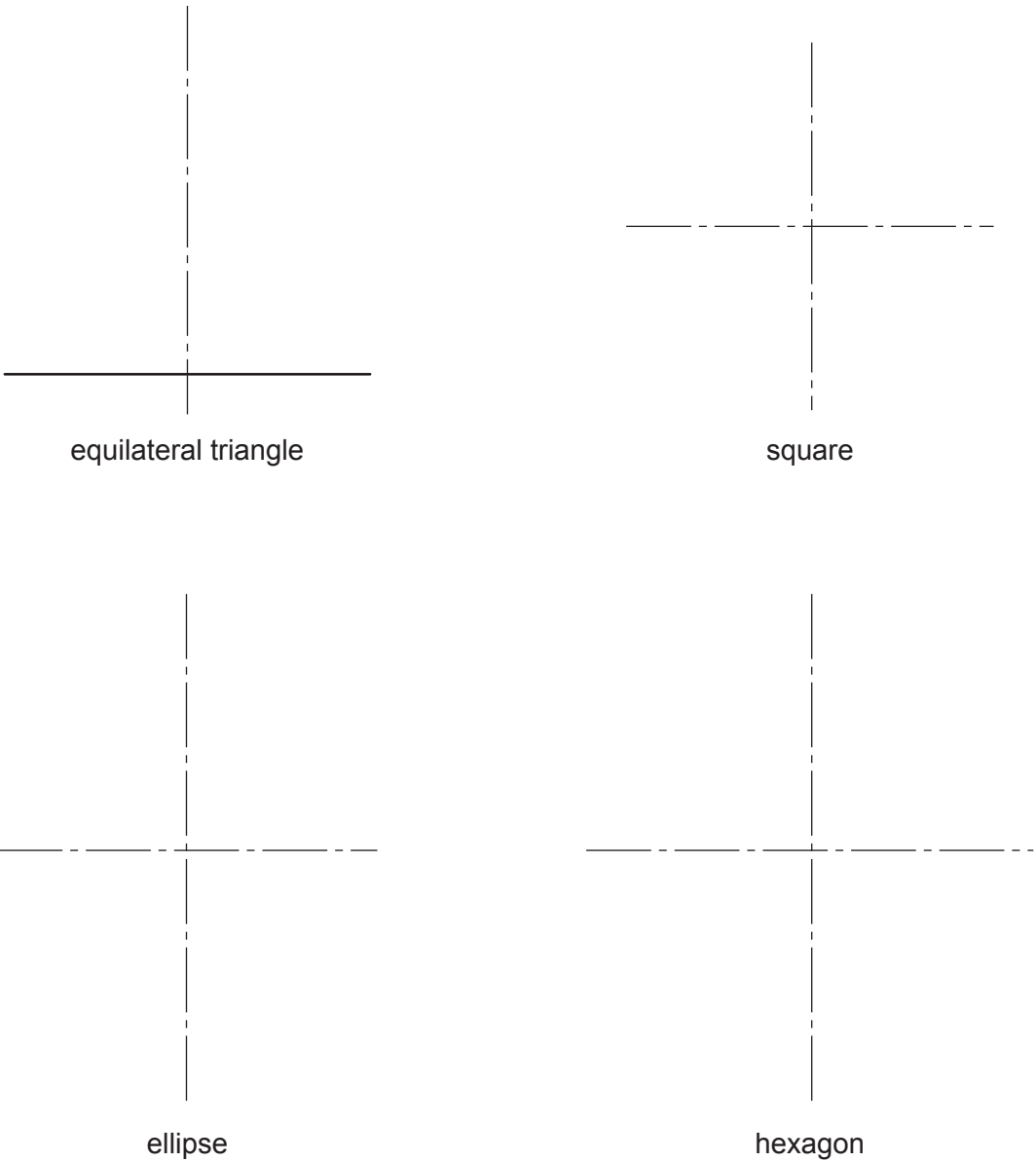


The sizes and shapes of the blocks are shown below.



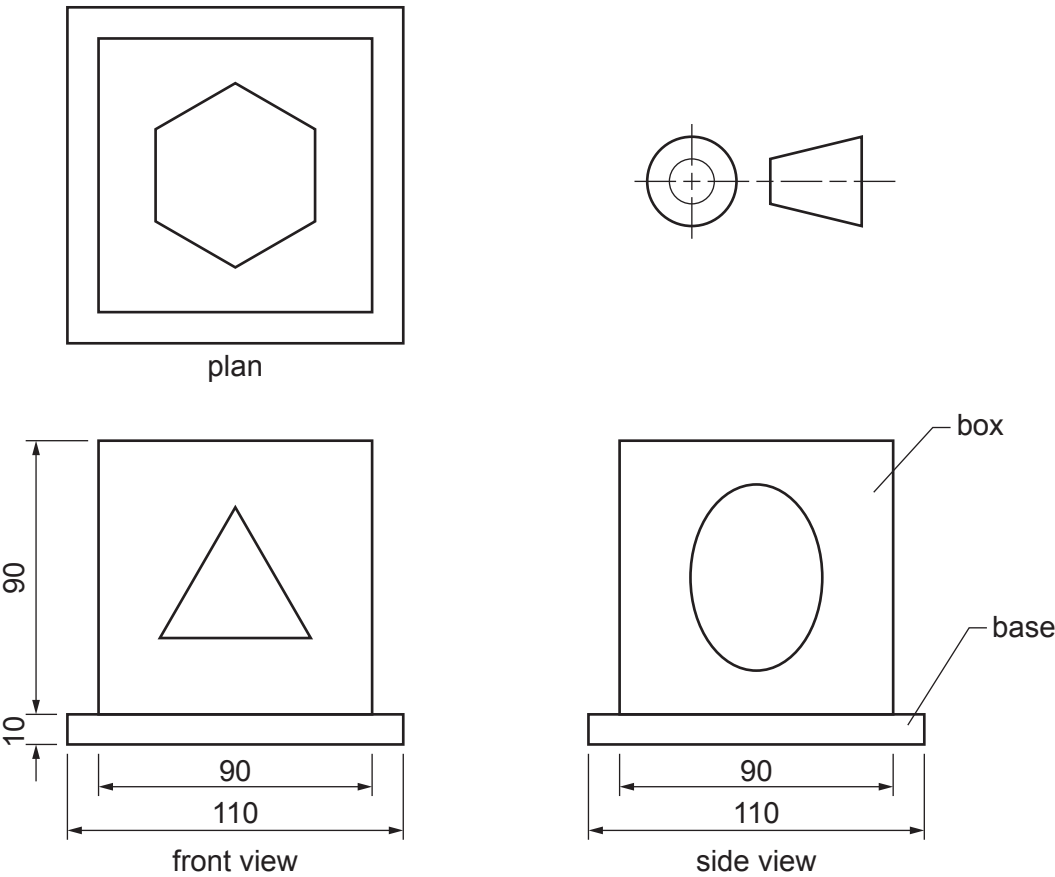
Complete the full-size drawing of the wooden blocks in the space provided to the right by adding:

- (a) the equilateral triangle [2]
- (b) the square [2]
- (c) the ellipse [6]
- (d) the hexagon. [3]



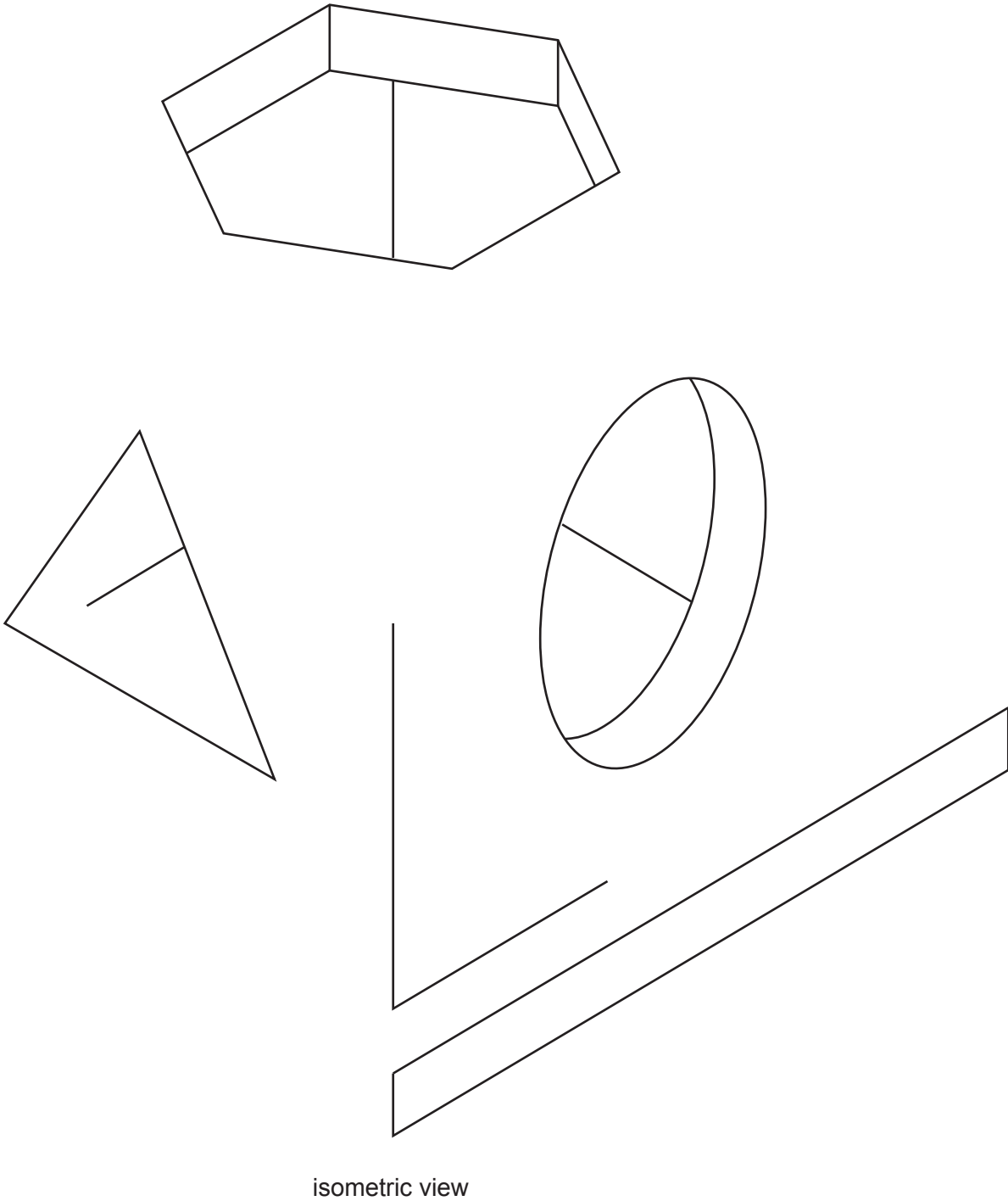
A2 The wooden blocks will be used with a shape sorter toy.

Orthographic views of the shape sorter toy are shown below.

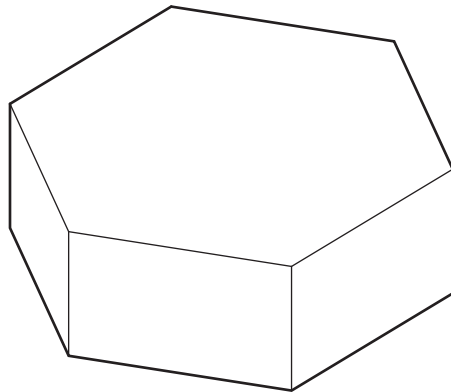


Complete the full-size isometric view of the shape sorter toy by adding:

- (a) the box [3]
- (b) the base [3]
- (c) the triangular hole thickness. [3]



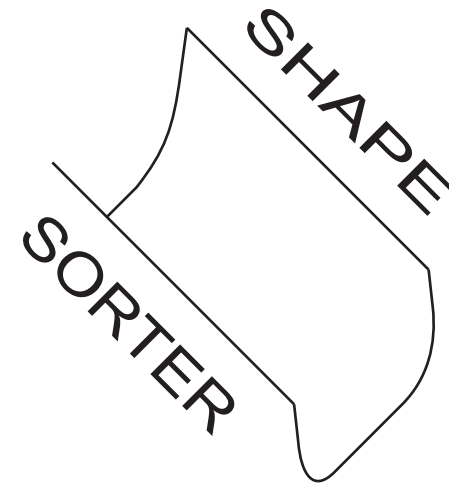
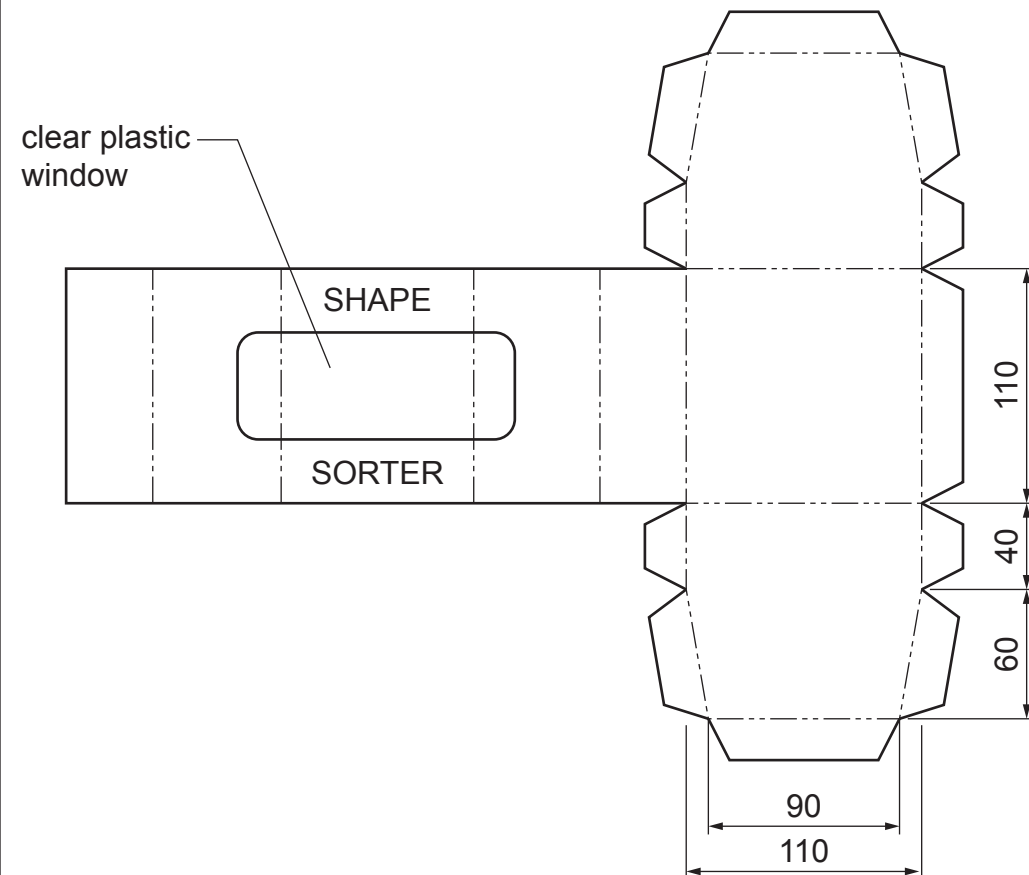
A3 The hexagonal wood block is shown below. The block is to be painted in a bright primary colour.



Render the wooden block in a suitable colour. [3]

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

B4 A development (net) of a card package for the shape sorter toy is shown below.



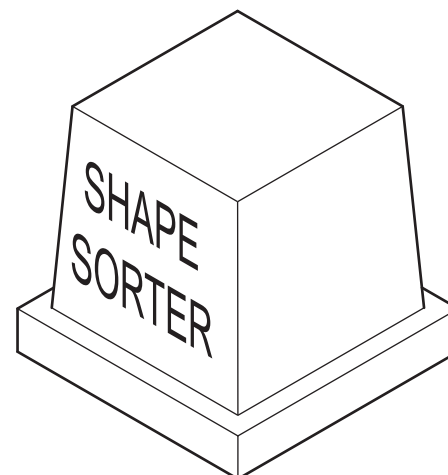
planometric view

- (a) Complete the planometric view of the assembled package to a scale of 1:2.

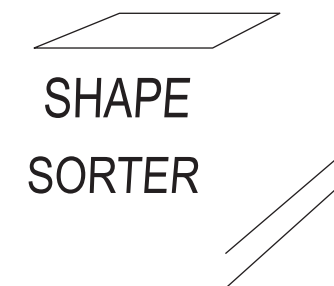
- (c)** The lettering on the card package needs to appeal more to young children.



- (d) An alternative package for the shape sorter toy is shown below.



Complete the one-point perspective view of the alternative package. [6]



one-point perspective view

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1 hour

DC (CJ/SW) 312584/5

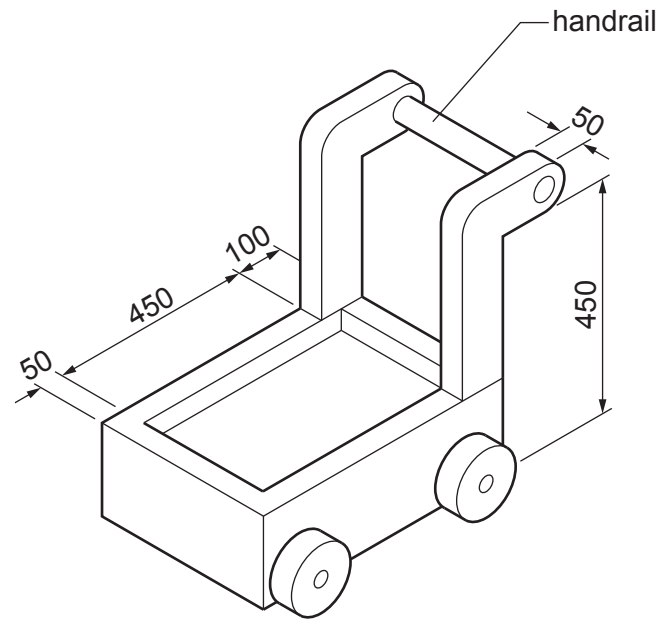


Centre Number Candidate Number

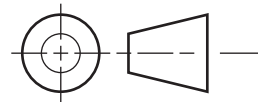
Candidate Name [Turn over]

For
Examiner's
Use

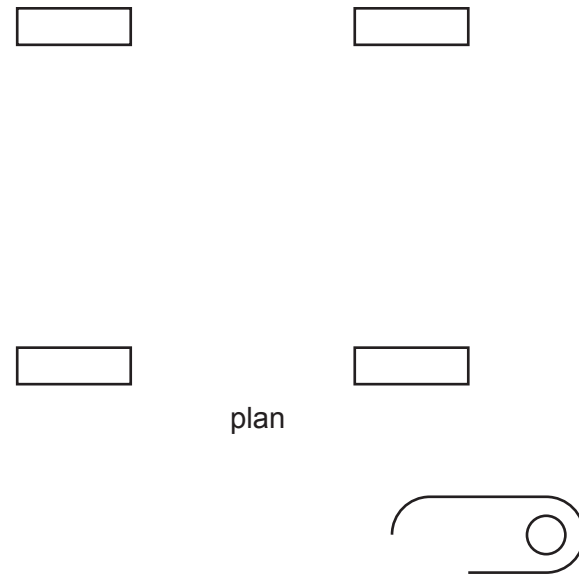
B5 A toy trolley is shown below.



(a) Complete the orthographic views of the toy trolley to a scale of 1:10. [10]



front view

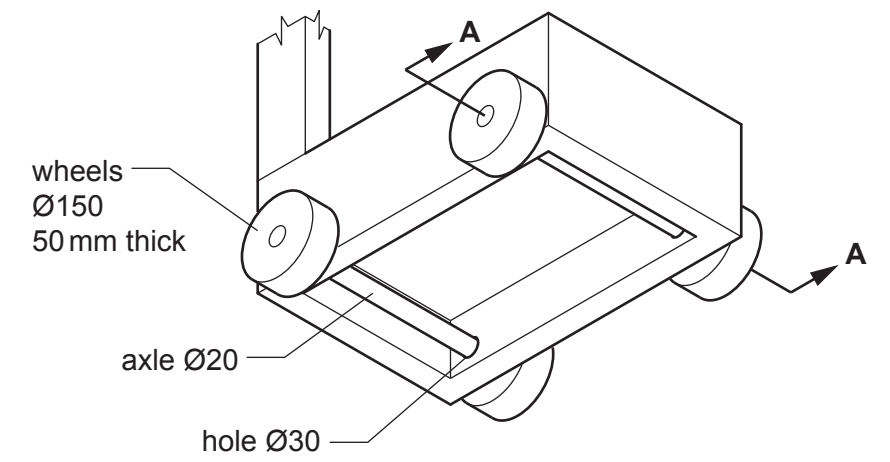


plan

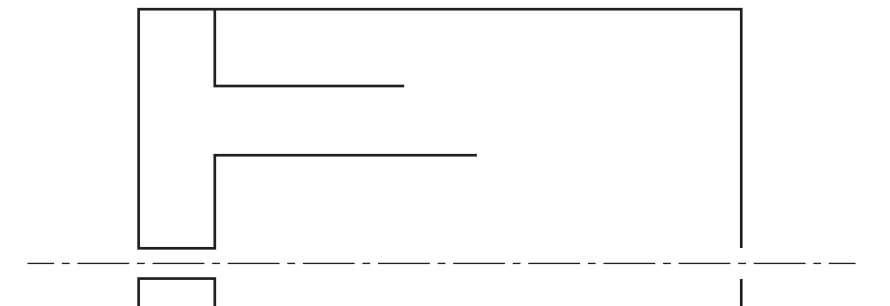


side view

(b) The wheels are attached to the toy trolley as shown below.



Complete the sectional view **A-A** through the axle of the toy trolley to a scale of 1:5. [6]



sectional view **A-A**

(c) An image of a teddy bear is to be added to the front of the toy trolley.

(i) Describe how a computer could be used to source and capture a teddy bear image.

.....

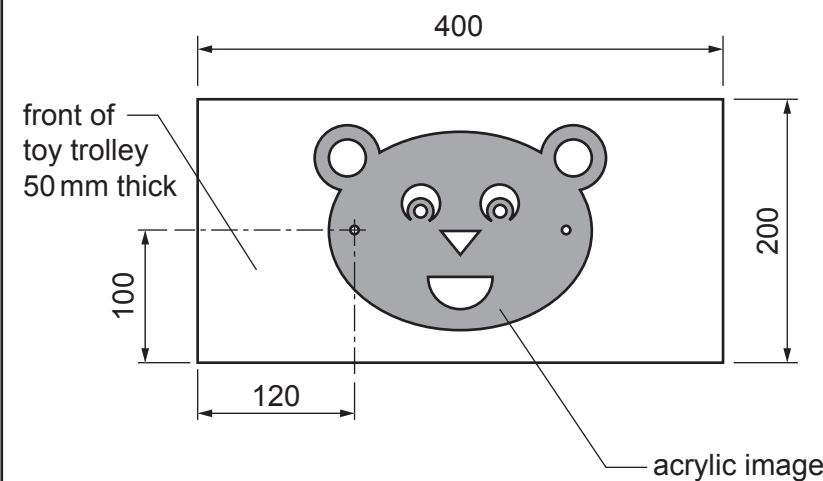
 [2]

(ii) The image will need to be altered to fit in the space on the front of the toy trolley.

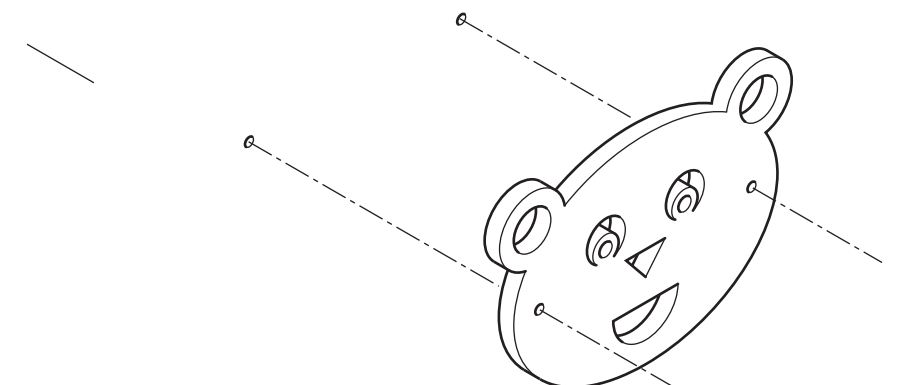
State **two** ways that the image could be altered onscreen using a computer.

1
 2 [2]

(d) The image of the teddy bear is to be cut out from 10 mm thick acrylic sheet and added to the front of the toy trolley as shown below.



Complete the exploded isometric view, to a scale of 1:5, by adding the front of the toy trolley. [5]



exploded isometric view