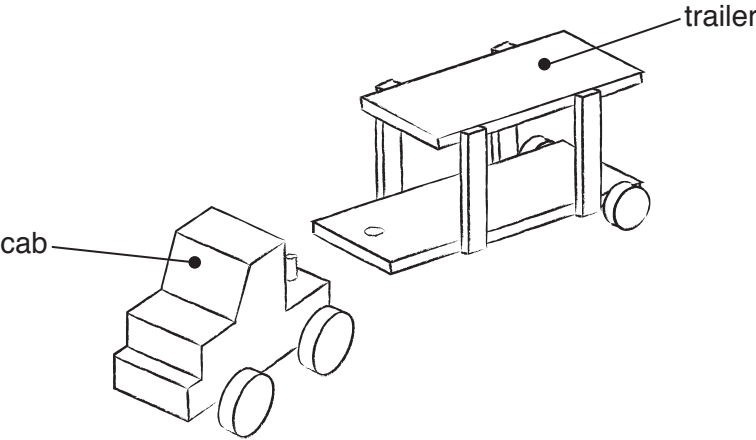
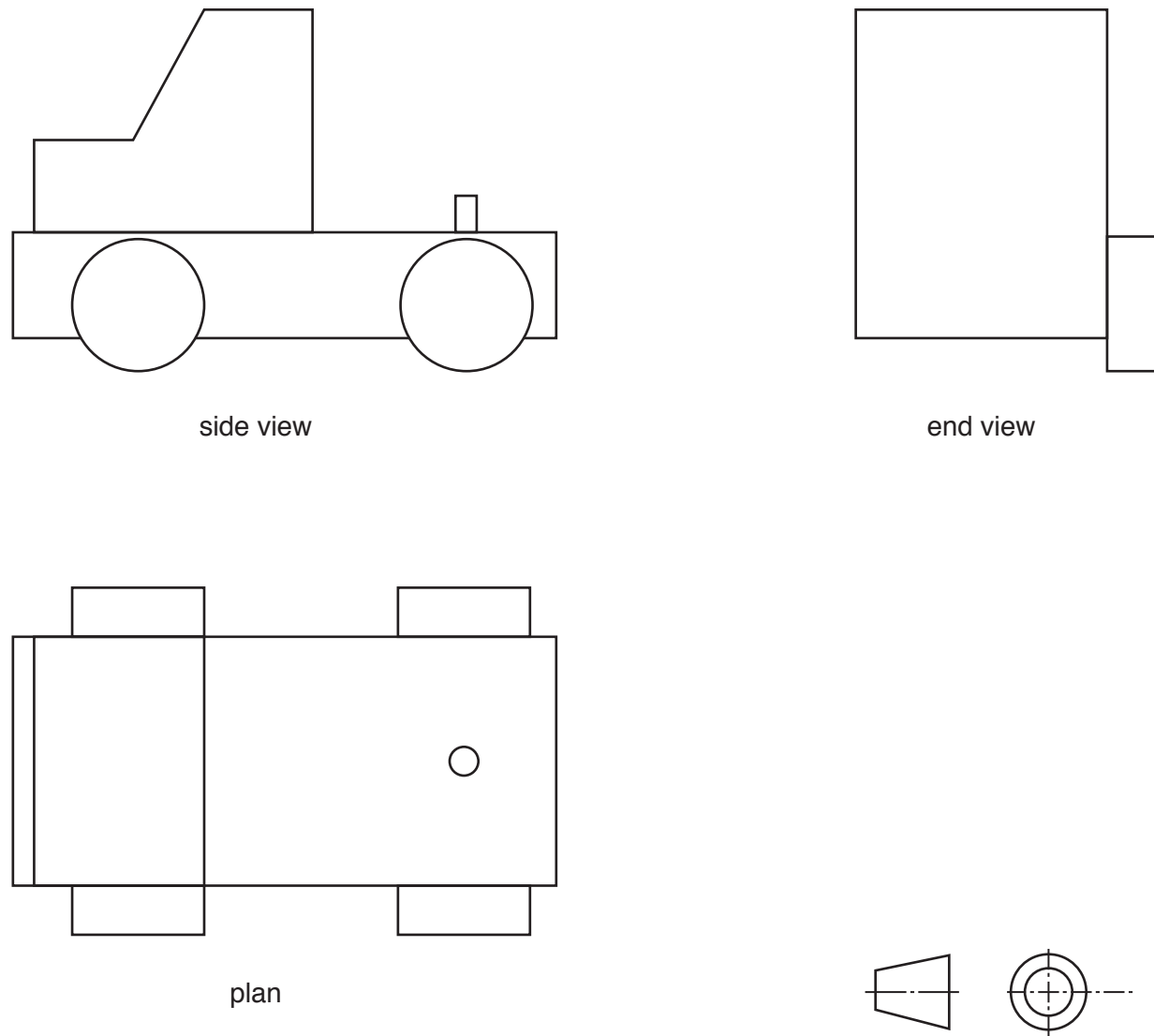


Section A
 Answer **all** questions in this section.

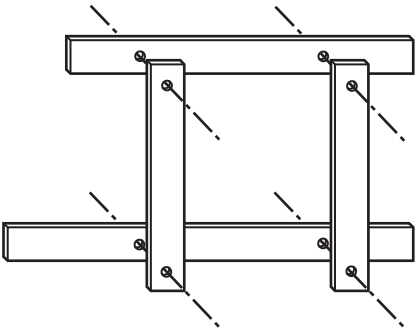
A1 A sketch of a model of a car transporter is shown below.



Complete the orthographic views of the cab of the car transporter shown below. [6]

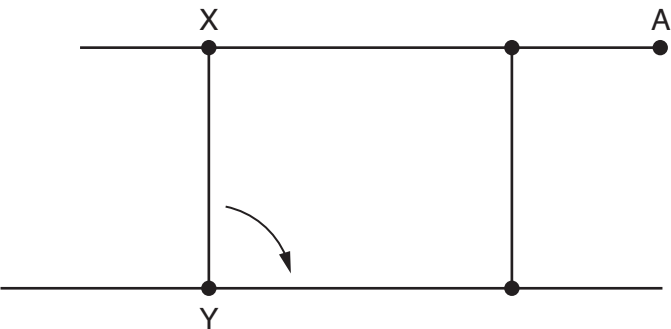


A2 The trailer is to be redesigned to include a mechanism that allows the top of the trailer to lower. A model of the mechanism is made from four strips of card shown below.



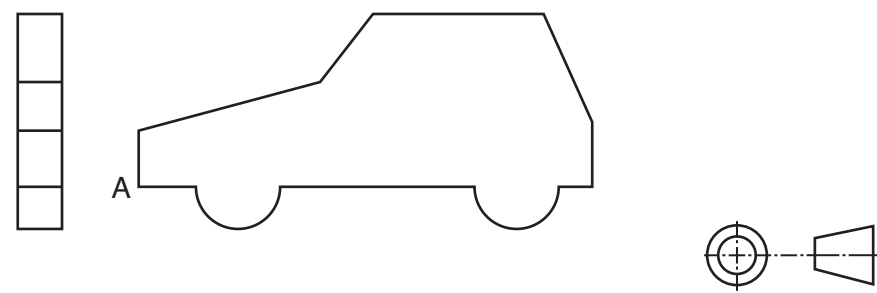
(a) Sketch and name a method of fastening the strips of card together. [2]

(b) Complete the schematic drawing below to show the path of point A as the line X – Y moves from a vertical to a horizontal position. [4]



A3 Car shapes cut from foam board sheet are added to the trailer of the car transporter.

Orthographic views of one of the car shapes are shown below.



(a) Construct a 2 : 1 isometric drawing of the car shape from the given start point **A**.
Sizes should be taken from the orthographic views.

[7]

(b) State **two** reasons why foam board is a suitable material for the car shape.

- 1. [1]
- 2. [1]

(c) Describe how a computer could be used to search for and capture a car shape.

Search for [2]
.....
.....
Capture [2]
.....
.....

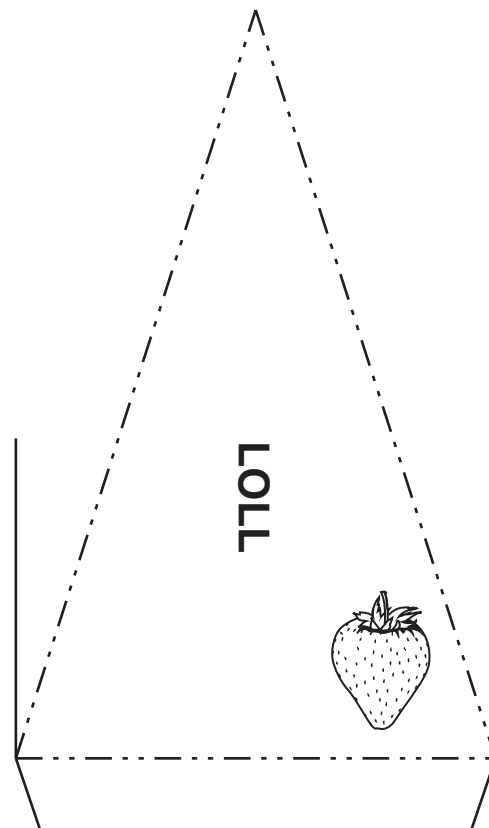
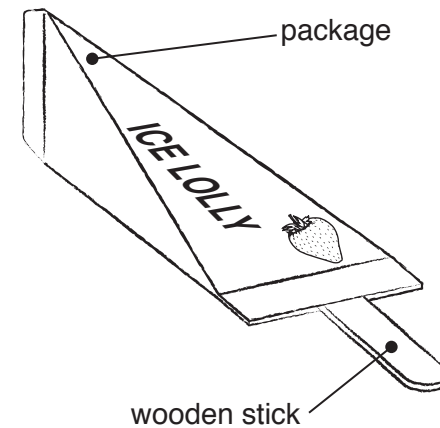
↓
A



Answer **either** question **B4** or **B5**.

(a) Complete the full size drawing of the development (net) of the package for the ice lolly below by:

- (i) adding the missing surfaces; [8]
- (ii) adding the missing glue tabs; [4]
- (iii) completing the name ICE LOLLY. [3]



(b) Describe the printing method used to produce 10 000 colour copies of the package for the ice lolly.

[6]

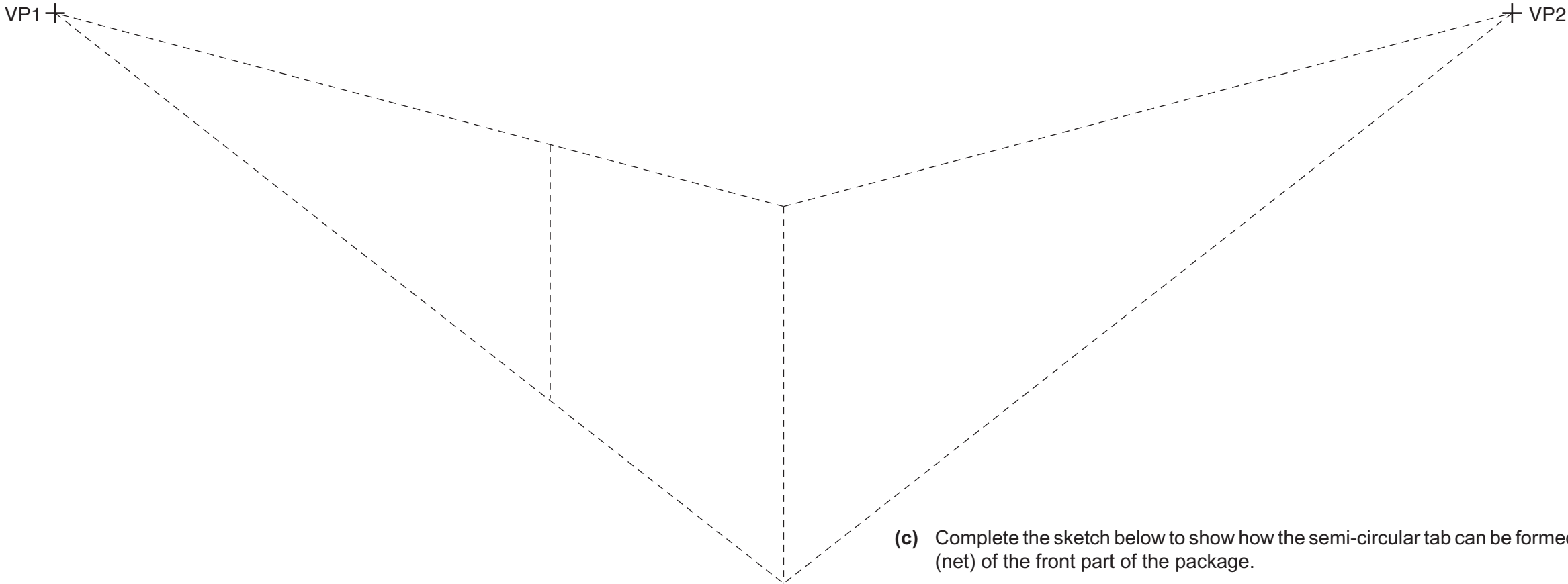
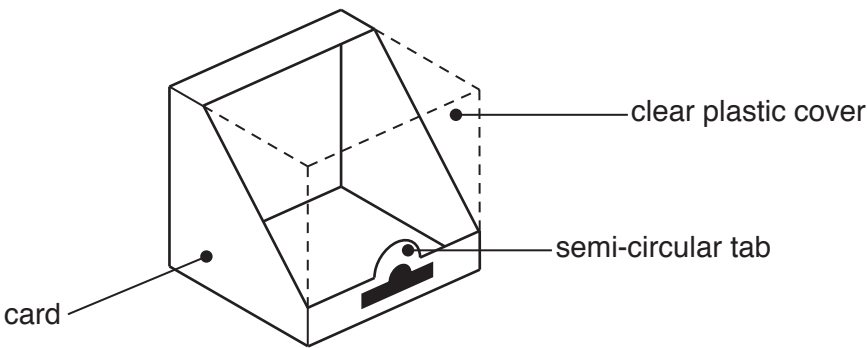
(c) Name and justify the choice of a colour for the fruit shape on the package for the ice lolly.

..... [2]

(d) Draw and name another symbol that should be added to the package for the ice lolly. [2]

B5 A package for a toy is shown on the right.

(a) On the start lines below complete the estimated two-point perspective drawing of the package for the toy. [15]



(b) Use sketches and notes to show a method of making the clear plastic cover. [6]

(c) Complete the sketch below to show how the semi-circular tab can be formed in the development (net) of the front part of the package. [4]

