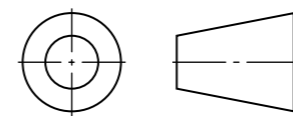
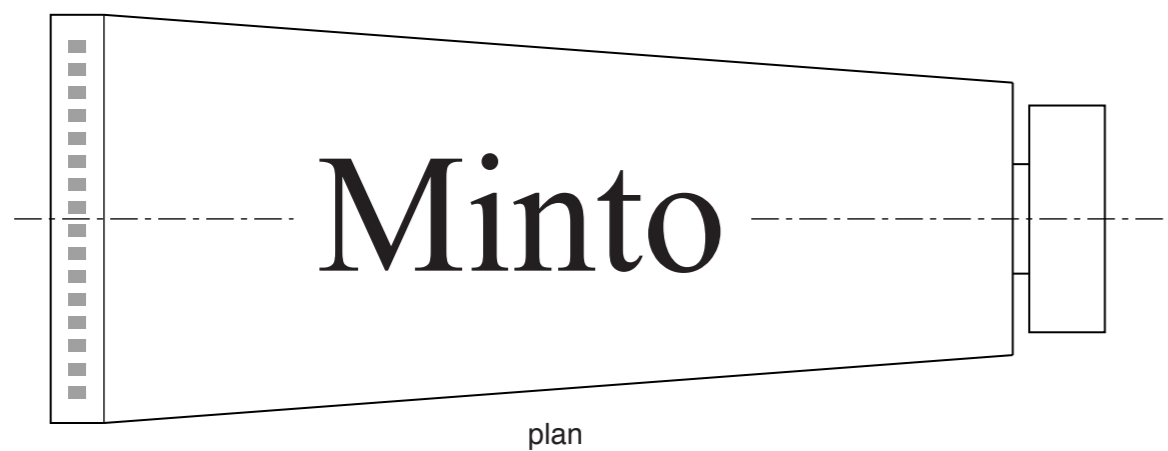
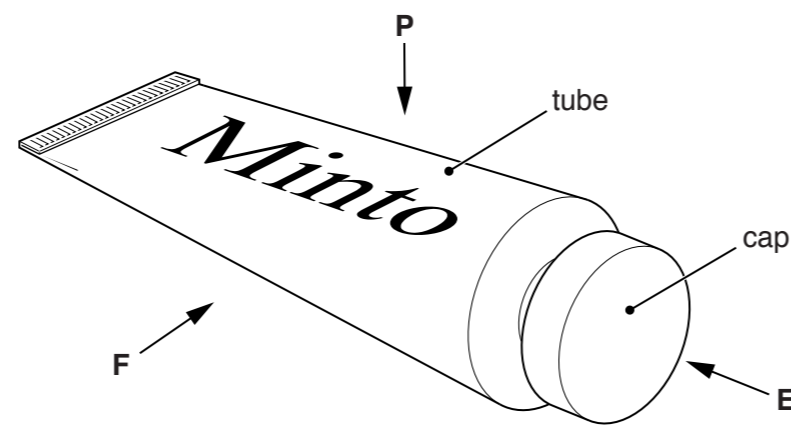


1 (a) A sketch of a toothpaste tube is shown on the right.

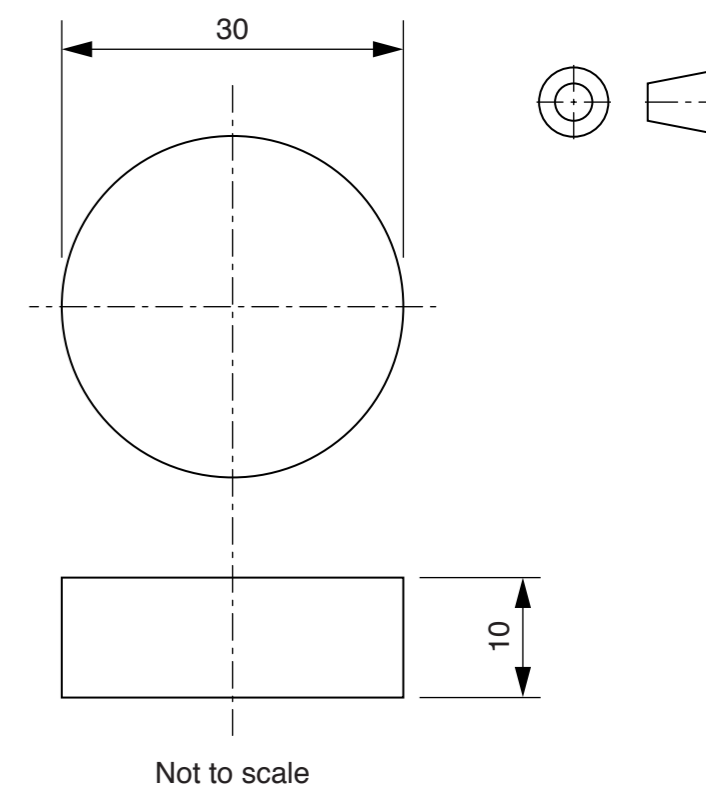
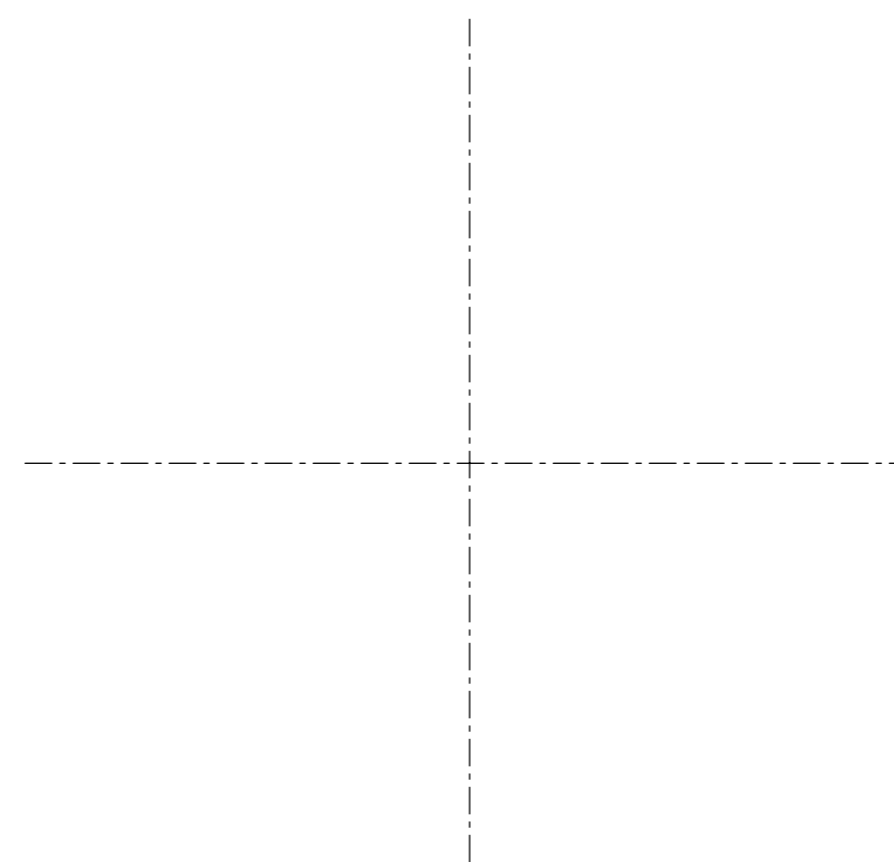
In the space below complete the following full size **orthographic views** of the toothpaste tube:

- (i) a **front** view in the direction of **F**; [7]
- (ii) an **end** view in the direction of **E**. [3]



(d) Orthographic views of the cap of the toothpaste tube are shown on the right.

Draw to a scale of 2 : 1 a **planometric** view of the cap on the given centre lines. [5]



(e) The toothpaste tube is packaged in a card box. In the space below complete the sketch of the development (net) of the box for the toothpaste tube. Clearly show the fold in flaps, the fold lines and the glue tab. [8]



(f) Explain **one** way the manufacturer of the toothpaste could make the card packaging environmentally friendly. [2]

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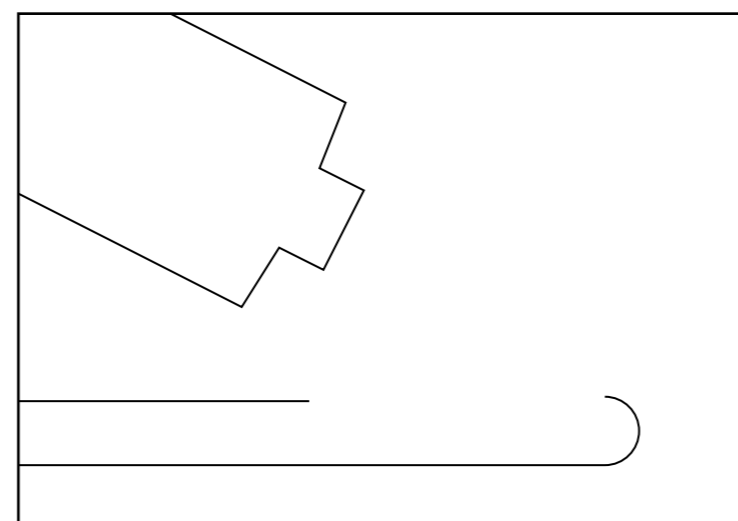
.....

(b) Write **two** specification points for the **material** the toothpaste tube is made from.

1. .... [1]

2. .... [1]

(c) Complete the diagram below to show the toothpaste being applied to a toothbrush. [3]



[Turn over

Candidate Surname .....

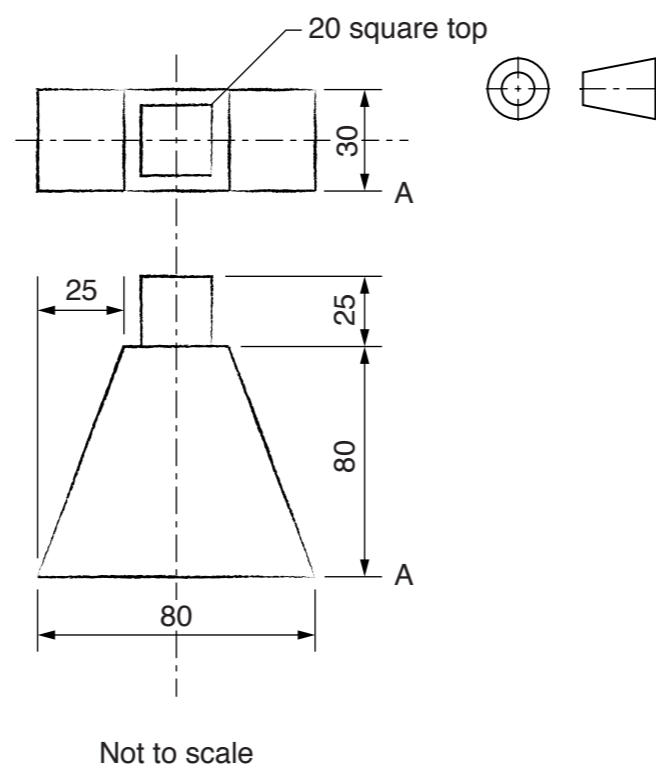
Other Names .....

Centre Number .....

Candidate Number .....

<b>Examiner's use only</b>

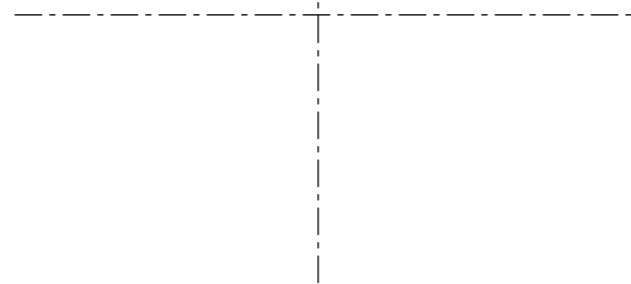
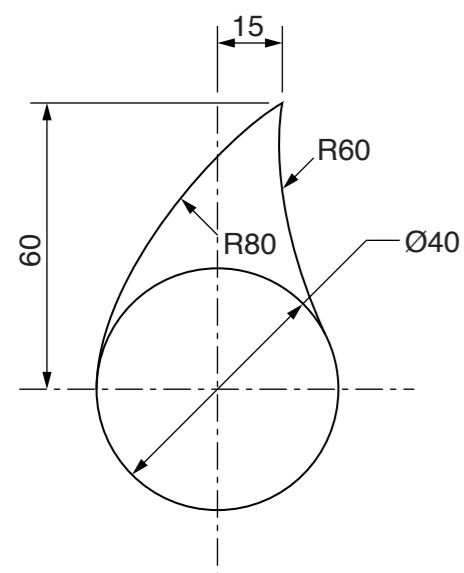
2 (a) Orthographic views of a perfume bottle are shown on the right. From the given start point A draw a full size **isometric** drawing of the perfume bottle. [8]



↙ A

(b) A sketch of the label to be added to the perfume bottle is shown below.

On the centre lines below, draw a full size view of the outline shape of the label. [4]



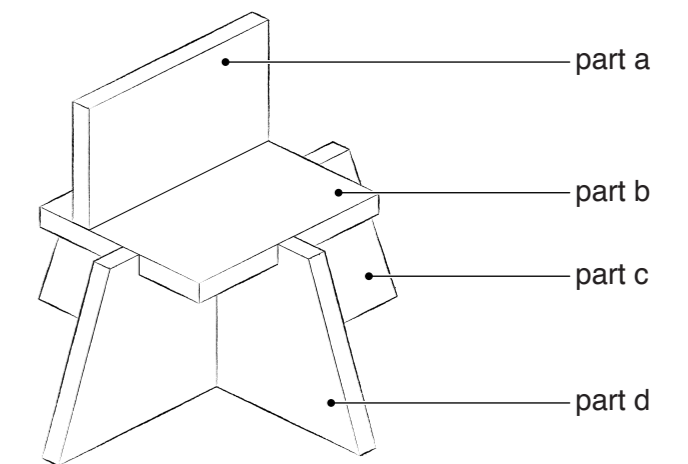
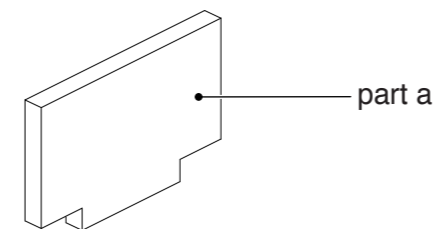
(c) Complete the list below to show **three** pieces of information that would be printed on the label for the perfume bottle.

1. *Product name*
2. .... [1]
3. .... [1]

(d) Tick (✓) the method below that would be used to produce 20000 colour labels for the perfume bottle. [1]

Photocopying	
Embossing	
Digital printing	

(e) A point of sale display stand for the perfume bottle is shown on the right. The stand is made from four pieces of foam board that slot together. Complete the exploded sketch below by adding parts **b**, **c** and **d**. [8]



(f) Add thick and thin line technique to part **a** of the exploded sketch above. [3]

(g) Complete the list below to show the **three** pieces of equipment that are required to cut out the foam board pieces of the point of sale display stand.

1. *Cutting mat*
2. .... [1]
3. .... [1]

(h) Explain **one** thing that would need to be checked to make sure the parts of the display stand are cut out correctly before they are assembled. [2]

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