

STAPLE HERE

FOR OFFICIAL USE

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1330/402

NATIONAL QUALIFICATIONS 2009
FRIDAY, 22 MAY
10.35 AM – 12.05 PM

GRAPHIC COMMUNICATION
STANDARD GRADE
General Level

Fill in these boxes and read what is printed below.

Full name of centre				Town			
<input type="text"/>				<input type="text"/>			
Forename(s)				Surname			
<input type="text"/>				<input type="text"/>			
Date of birth		Scottish candidate number				Number of seat	
Day	Month	Year	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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1 95 marks are allocated to this paper: 35 marks for Knowledge and Interpretation
60 marks for Drawing Abilities

- 2 Answer **all** questions.
- 3 Read each question carefully before you answer.
- 4 Written answers may be in **ink** or **pencil**.
- 5 Drawings and sketches **must be in pencil**.
- 6 Sketches need only be in line form—**do not spend time rendering**.
- 7 Dimensions are given in millimetres or as stated.
- 8 Orthographic drawings are in third angle projection.
- 9 For each question, the element being tested and the mark allocation are shown in brackets, eg (DA 5) means a question on Drawing Abilities worth 5 marks.
- 10 **At the end of the examination**

check that your name is on every sheet;
put the sheets in correct numerical order;
place this sheet on top of the others;
join all sheets together by **stapling** at the top left-hand corner;
before leaving the examination room, you must give these sheets to the invigilator (if you do not you may lose all the marks for this paper).

	KI	DA
1		
2		
3		
4		
5		
6		
7		
8		
9		
Total Marks		



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Three types of plans used in the building industry are shown.

Study these plans and answer the following questions.

(a) (i) State the name given to **Plan A**.

Plan A

(ii) Identify the symbols **B, C, D, E, F** and **G** used on this plan.

B

D

F

(b) (i) State the name given to **Plan B**.

Plan B

(ii) State which of the following scales was used for this plan.

1:10 1:100 1:200 1:1250

Scale

(iii) Identify the symbol **X** shown on **Plan B**.

Symbol **X**

(c) State the name given to **Plan C**.

Plan C

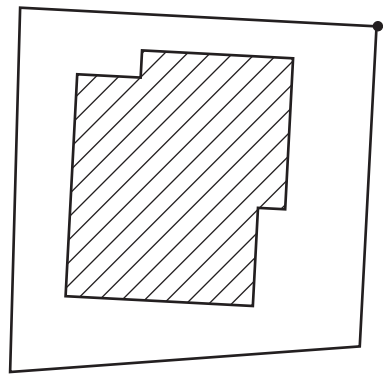
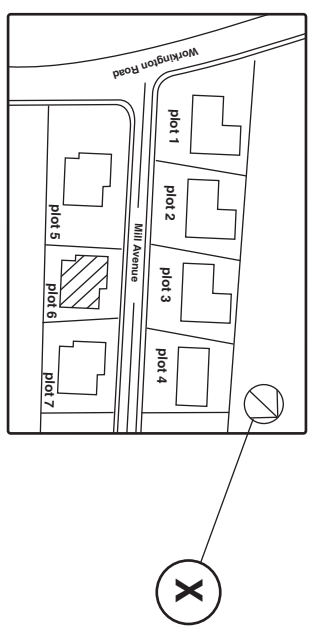
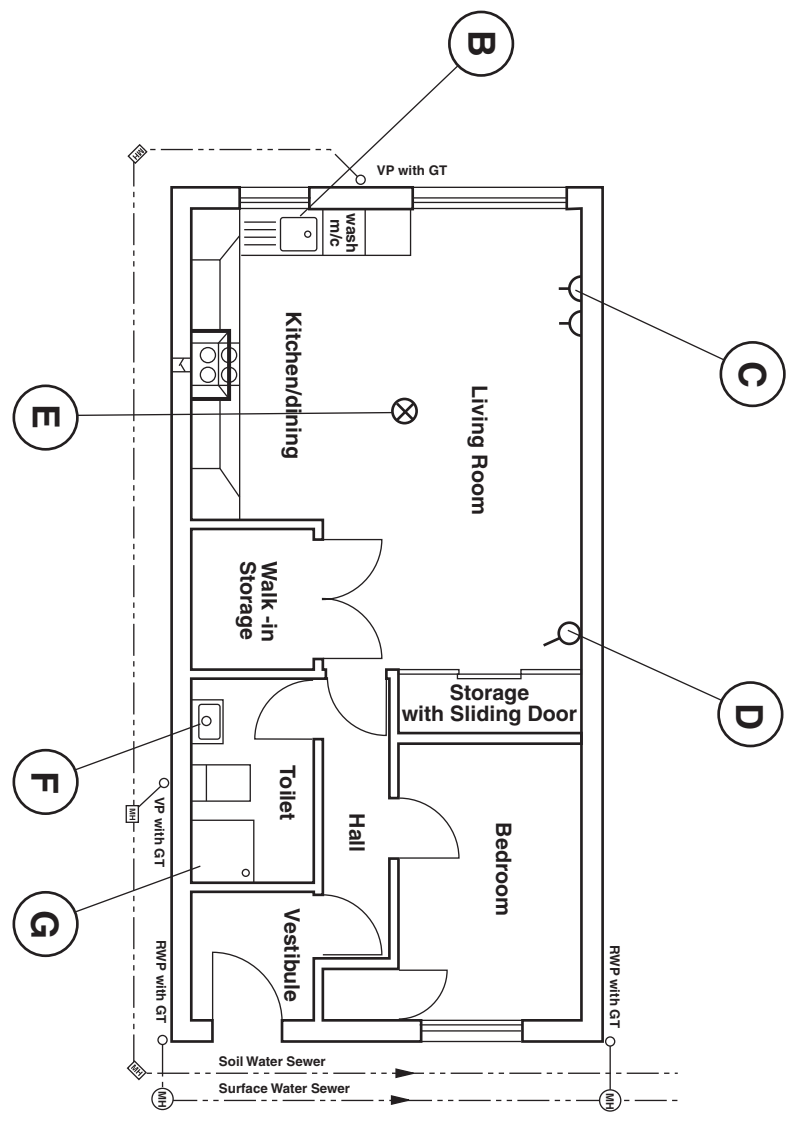
KI 1

KI 6

KI 3

KI 1

Total (KI 11)



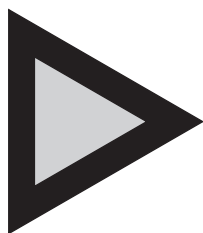
SCALE 1:250

For the safety signs shown below, complete the missing information in the boxes provided.

Sign type



Border colour



Background colour

Sign type



Background colour



Sign type



Border colour



Background colour

Sign type



Background colour



Wear masks

Total (KI 7)

The use of CAD systems is now well established in many different industries that use graphics.

(a) Look at the features shown in **Box A** and, in the box provided, state the single CAD command that could be used to change the feature to what is shown in **Box B**.

	Command ↓	
Box A	Box B	
	Command ↓	
Box A	Box B	
	Command ↓	
Box A	Box B	
	Command ↓	
Box A	Box B	
	Command ↓	
Box A	Box B	
	Command ↓	
Box A	Box B	

KI 6

(b) State the names of **two** devices that could be used to obtain hard copies of drawings produced using a CAD system.

Device

Device

KI 2

(c) (i) Explain what is meant by the term “to back-up” when applied to work done using CAD.

Explanation

.....

(ii) State why it is good practice to make a back-up.

Reason

.....

KI 2

Total (KI 10)

Study the drawings shown opposite and answer the following questions.

- (a) State the names of the types of view shown at **A**, **B** and **C**.

View A **View B**

View C **KI 3**

- (b) State the names of **two** other views in which you would see all three dimensions.

Answer 1 Answer 2 **KI 2**

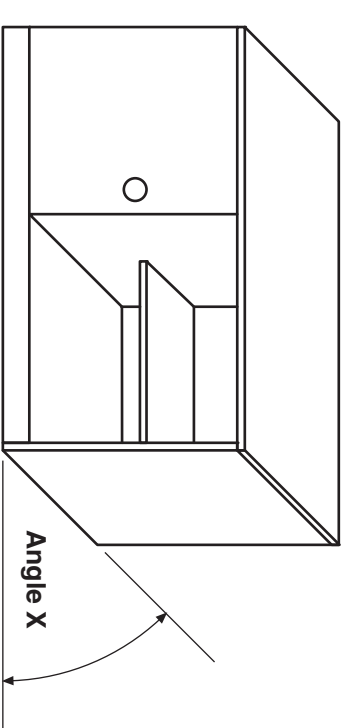
- (c) State the **Angle X** on **View A**.

Angle **KI 1**

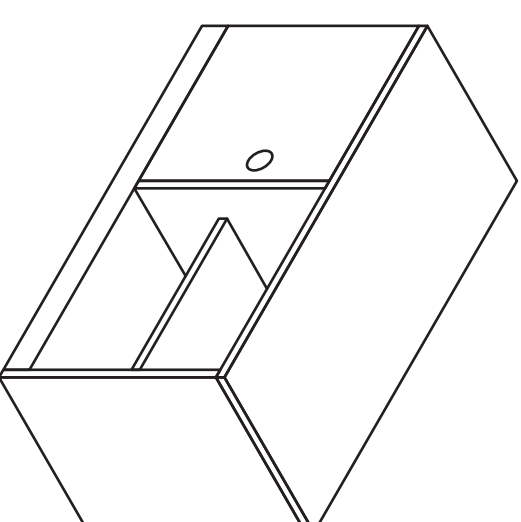
- (d) State the general name given to the types of view shown at **A**, **B** and **C**.

Answer **KI 1**

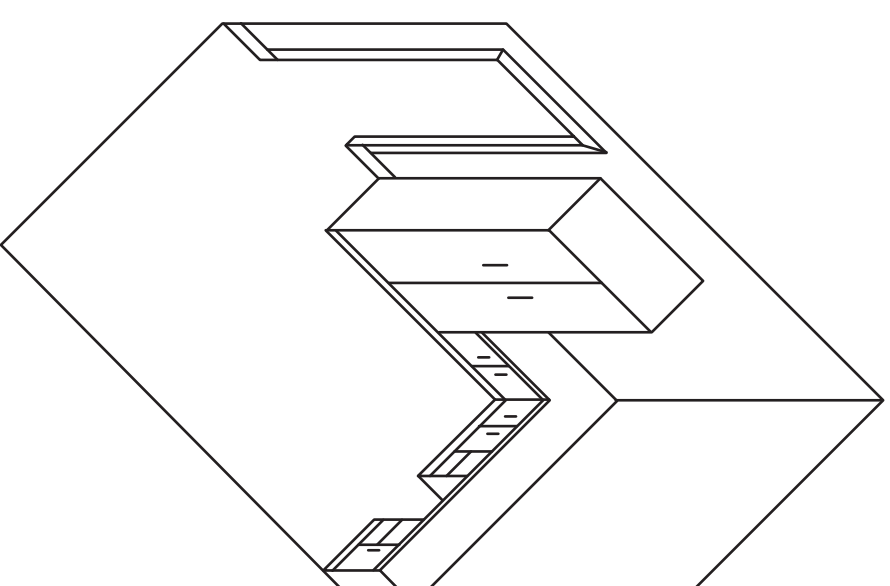
Total (KI 7)



VIEW A



VIEW B



VIEW C

The elevation of an inkjet printer cartridge is given. A pictorial view is also shown.

Using the given sizes, **draw**:

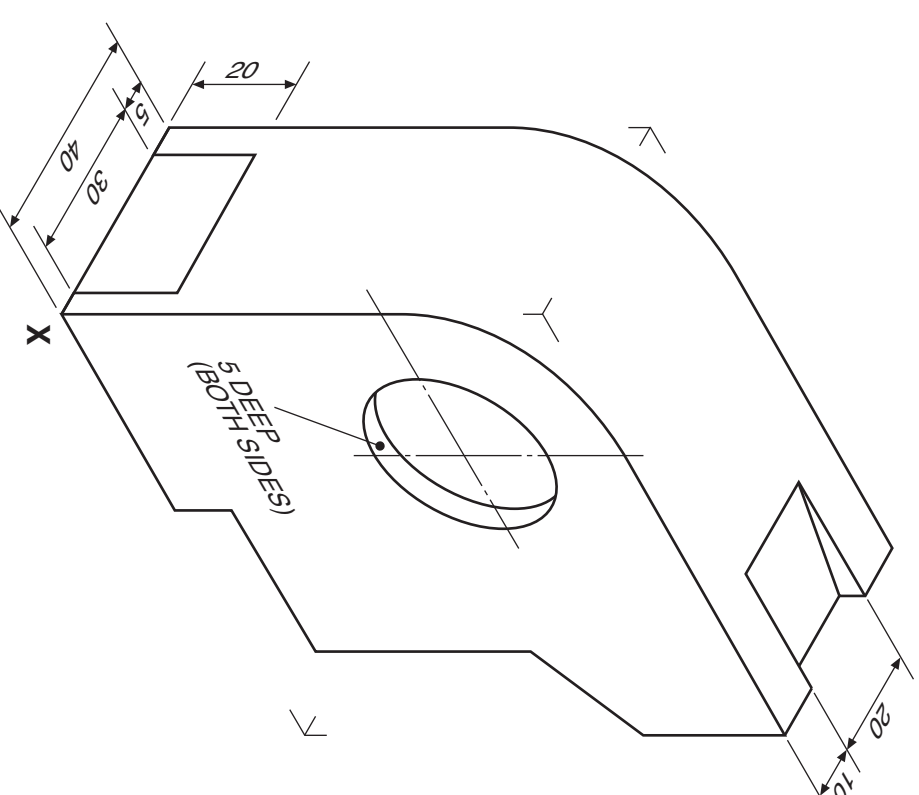
- (a) the end elevation in the position indicated;
- (b) the plan projected from the elevation.

Show hidden detail.

DA 8

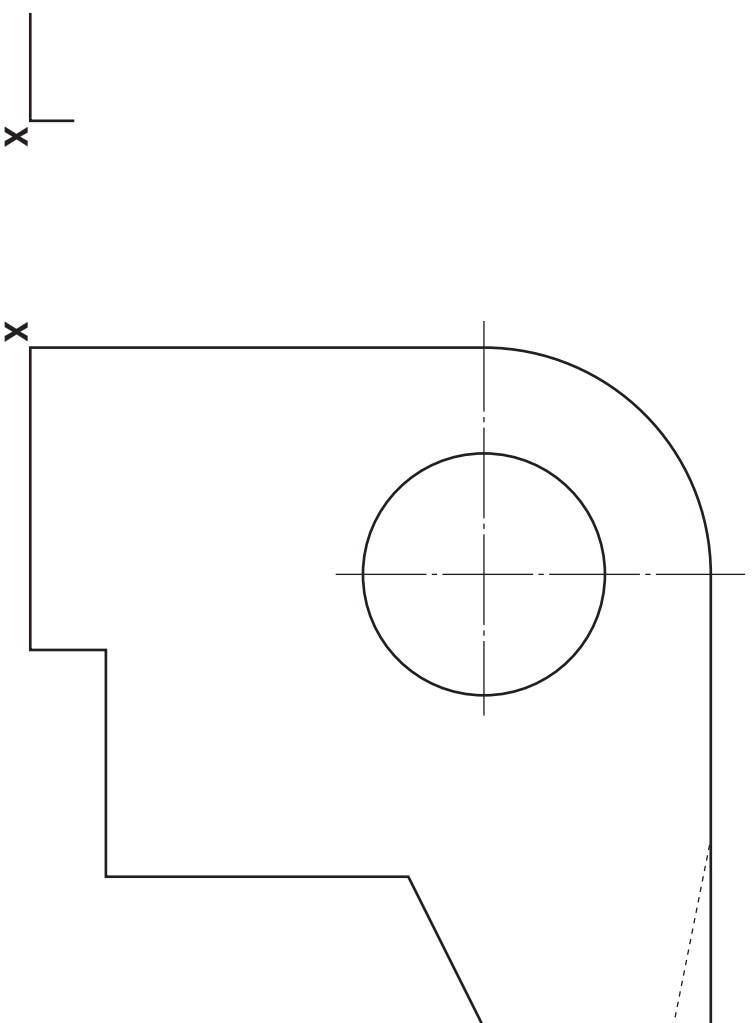
DA 5

Total (DA 13)



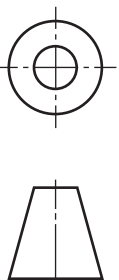
PLAN

NOT TO SCALE



END ELEVATION

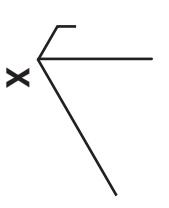
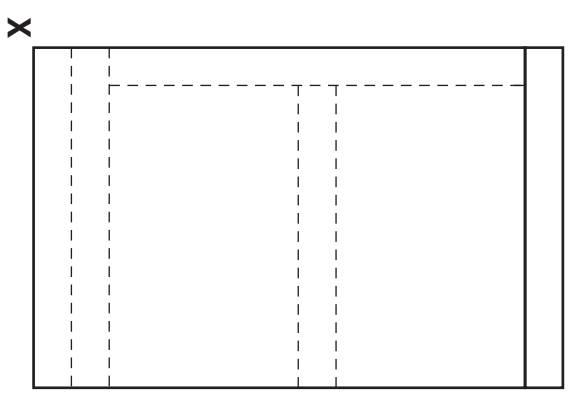
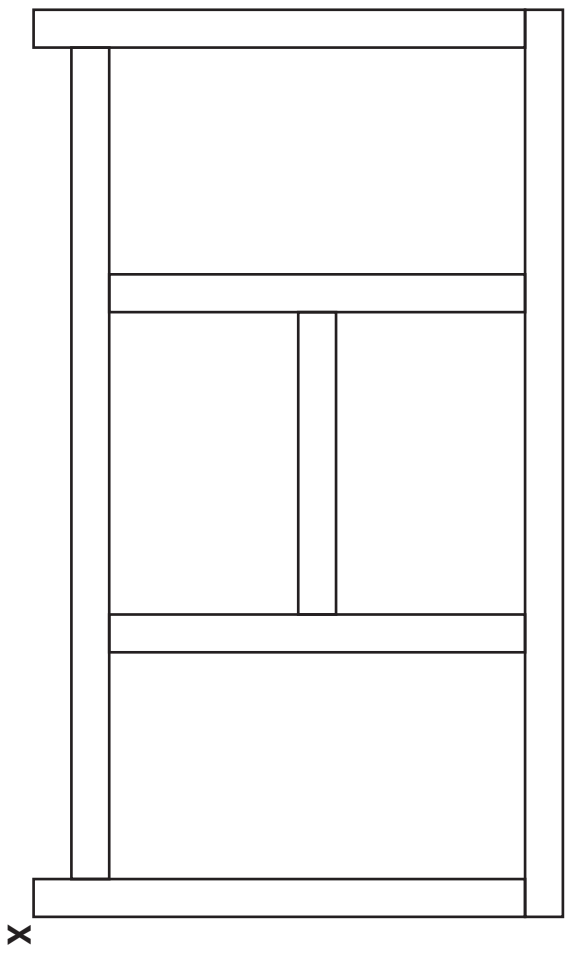
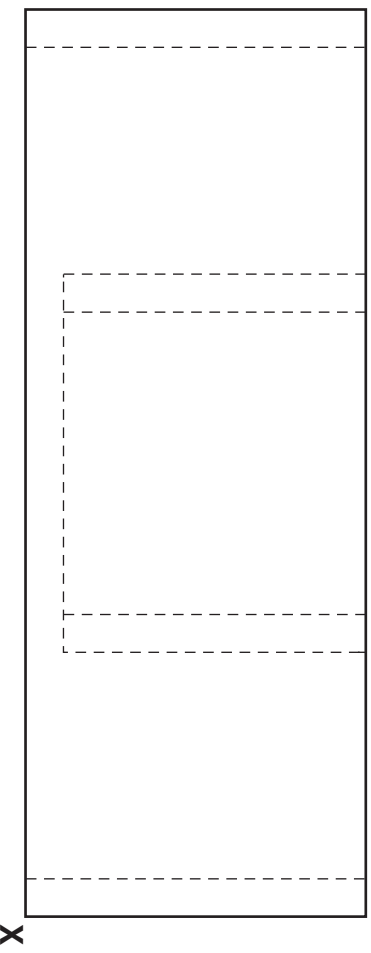
ELEVATION



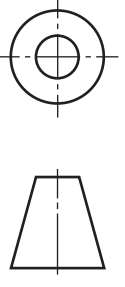
The elevation, end elevation and plan of a small cabinet are given. Draw an **isometric view** of the cabinet, using corner **X** as a start.

Do not show hidden detail.

Total (DA 11)



ISOMETRIC VIEW



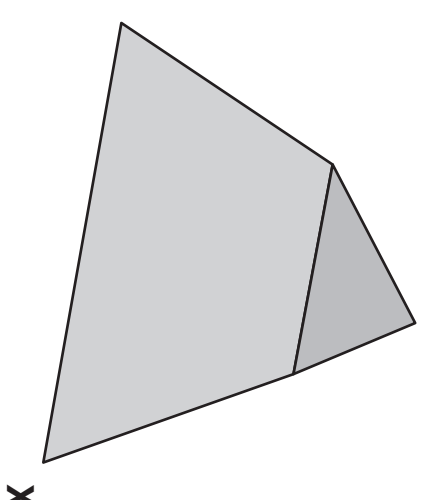
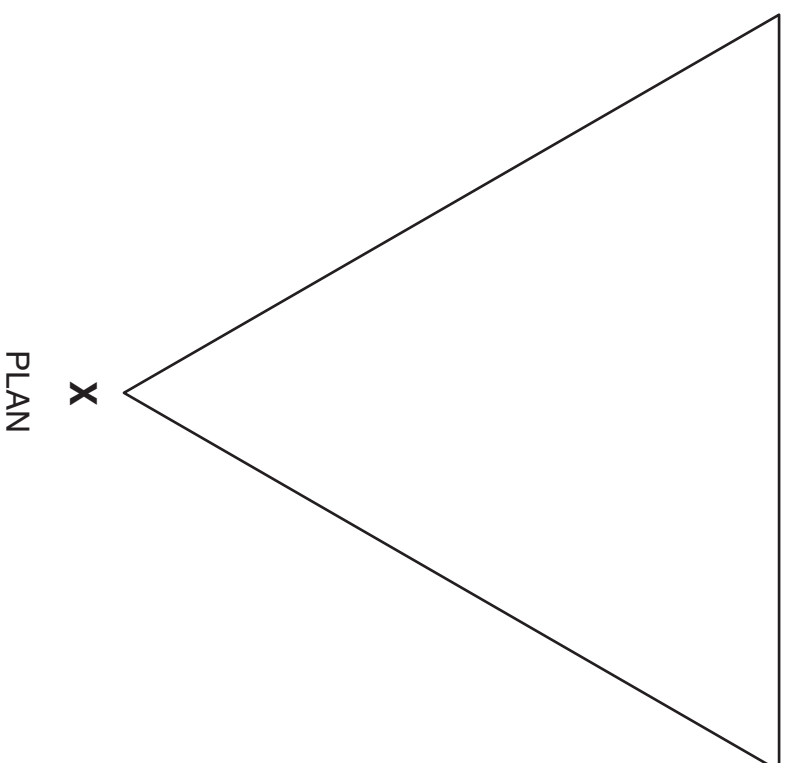
The elevation and incomplete plan of a lamp base are given.
The lamp base is in the form of a cut right pyramid.

A pictorial sketch is also shown.

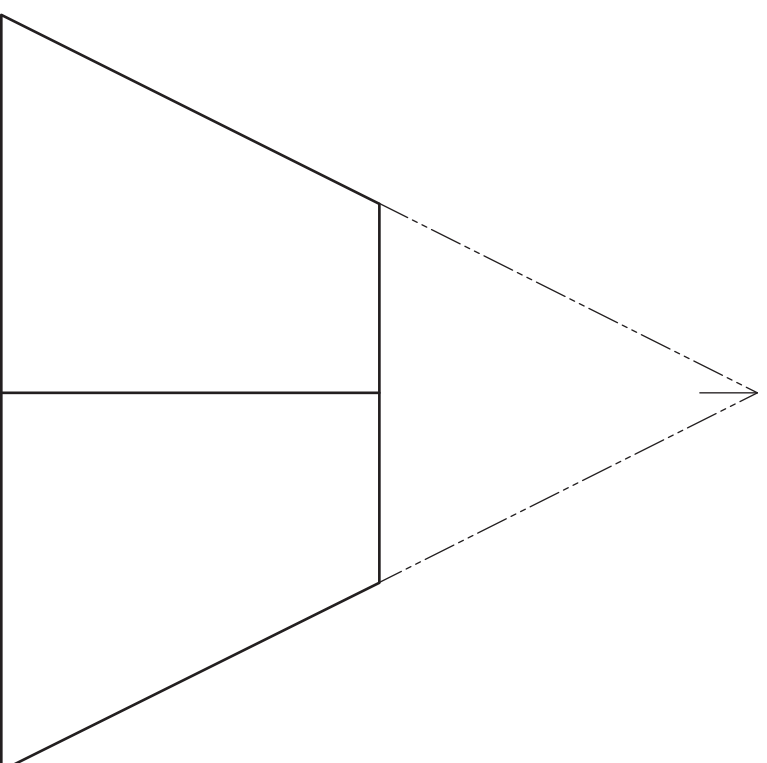
Draw:

- (a) the complete plan;
- (b) the end elevation.

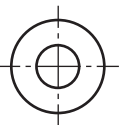
DA6
DA4
Total (DA10)



END ELEVATION



ELEVATION



Candidate's Name _____

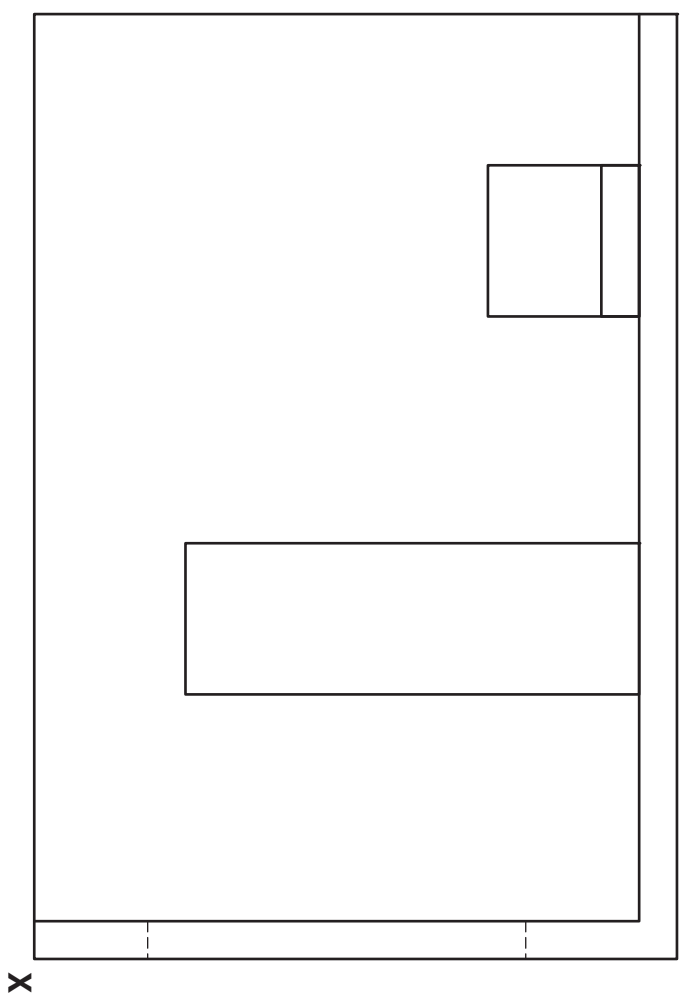
The elevation, end elevation and plan of a corner of a library are shown.

Draw a planometric view of the room, seat, bookcase and window, using the given start **X**.

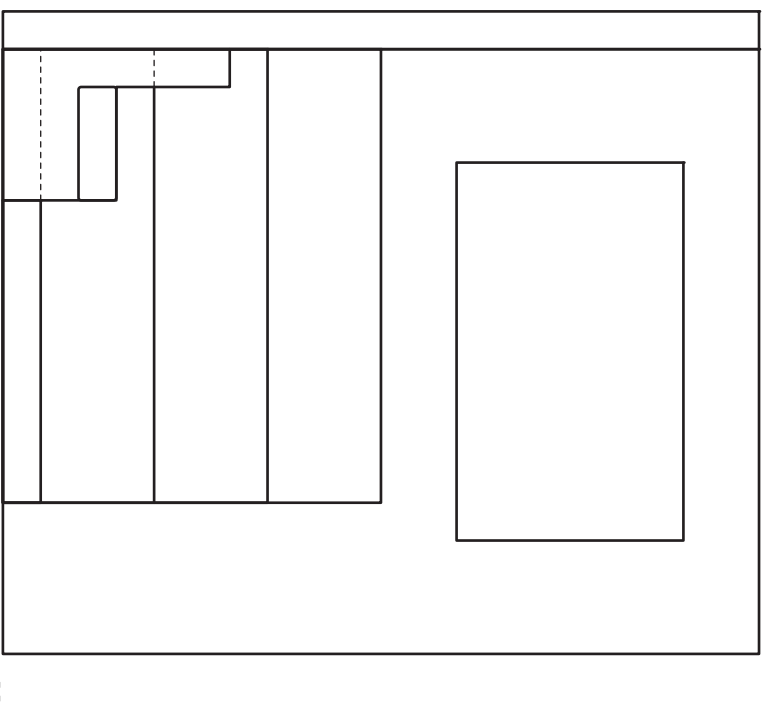
Take all sizes from the given views.

Do not show hidden detail.

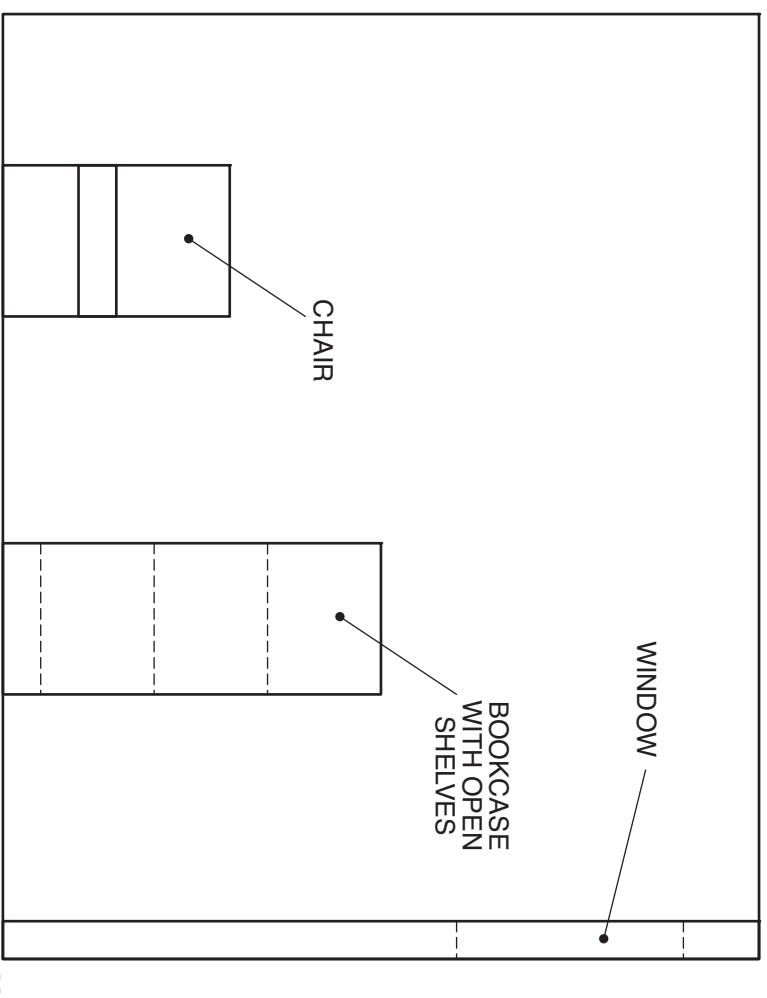
Total (DA 16)



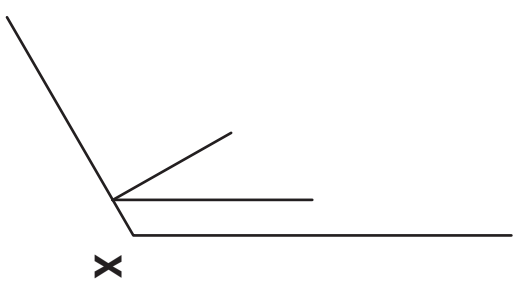
PLAN



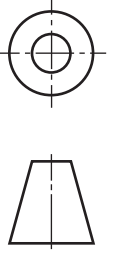
END ELEVATION



ELEVATION



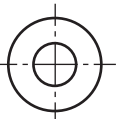
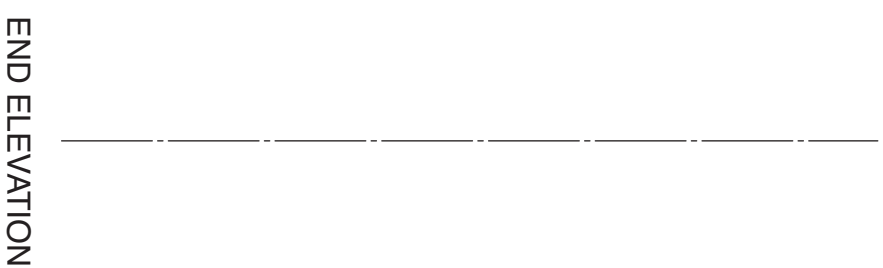
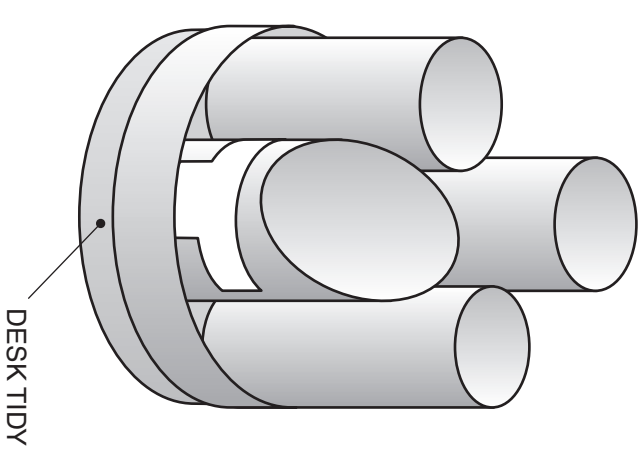
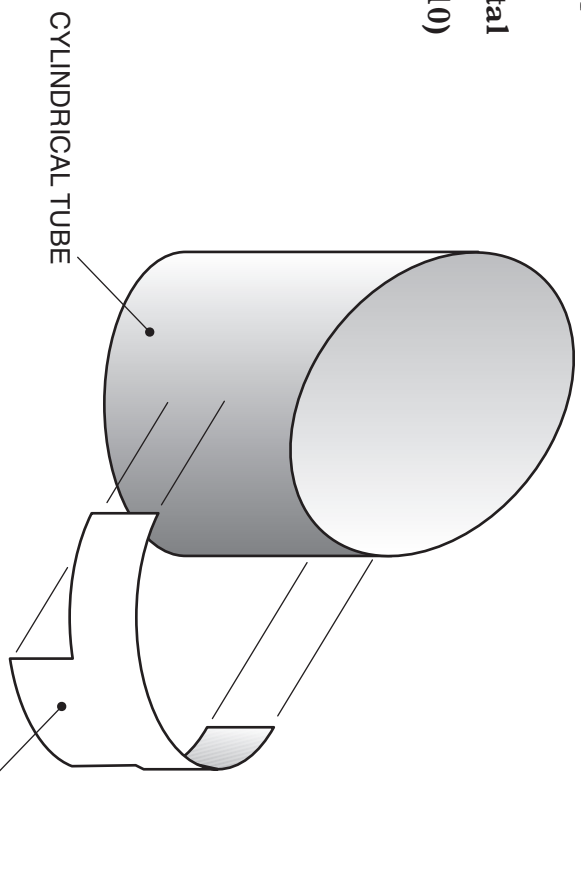
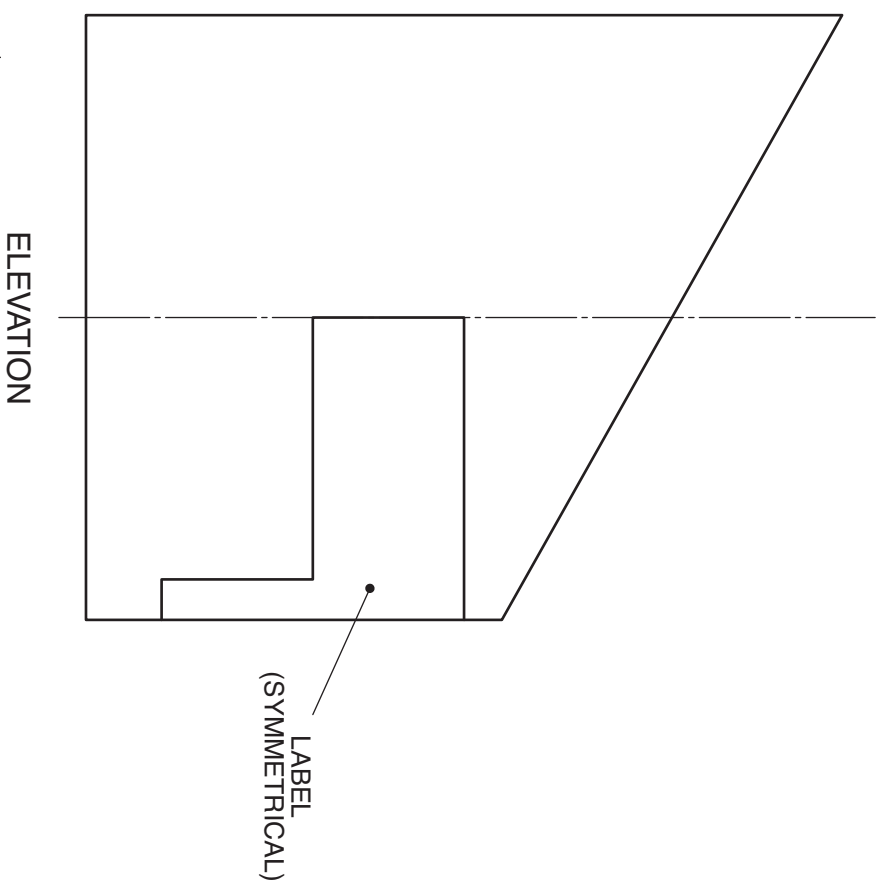
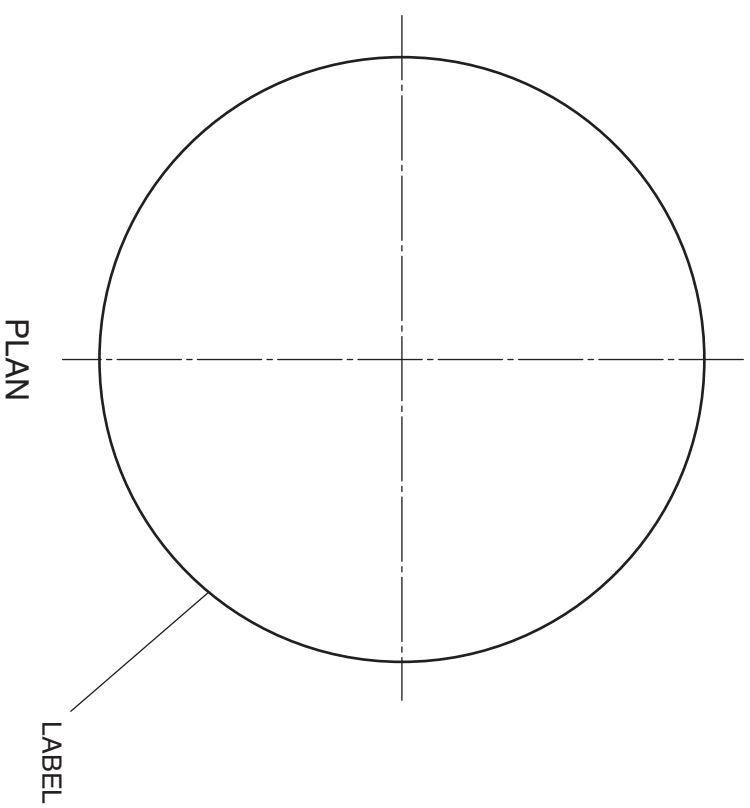
PLANOMETRIC VIEW



The elevation and plan of a cylindrical tube from a desk tidy are given. Pictorial views of the desk tidy are also shown.

Draw the end elevation of the tube (including the label).

Total
(DA 10)



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