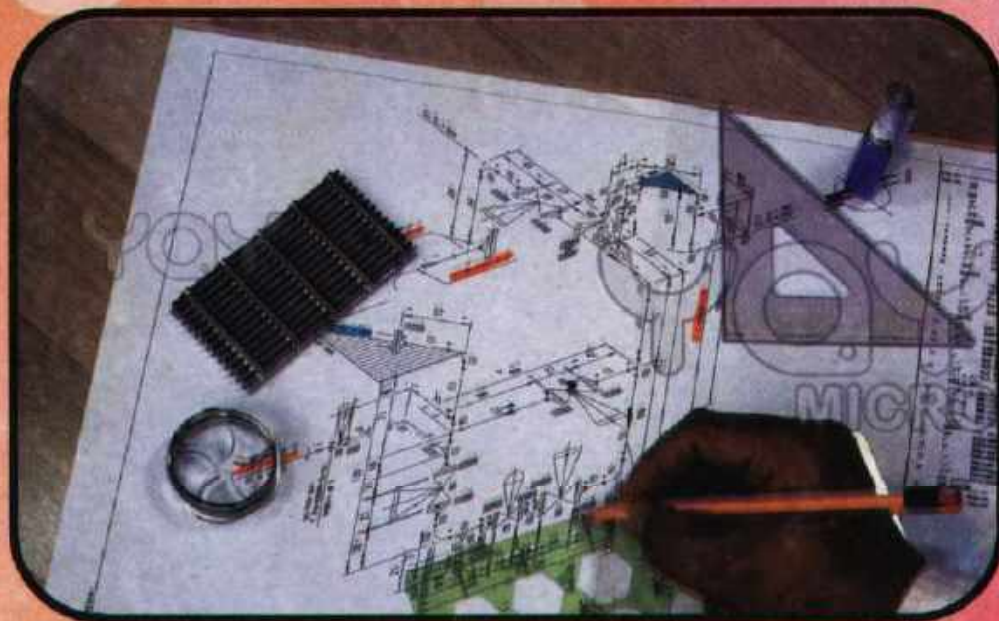


TRADE PRACTICE 1

DRAFTSMAN (MECHANICAL)

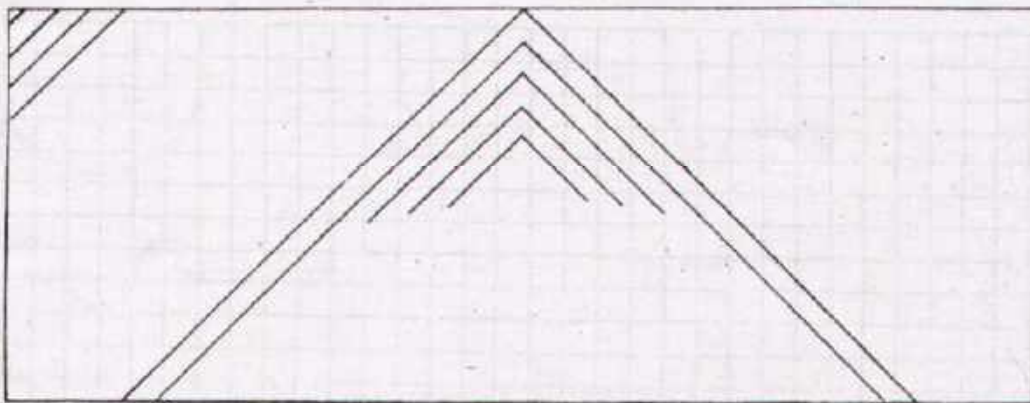
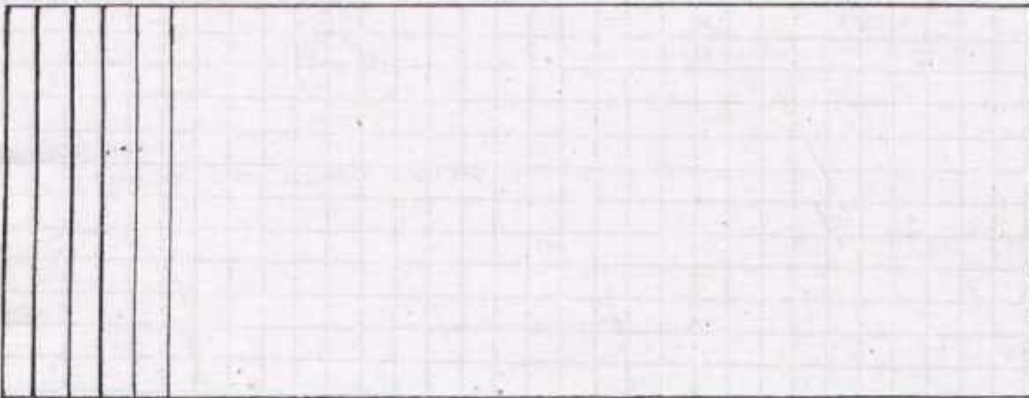
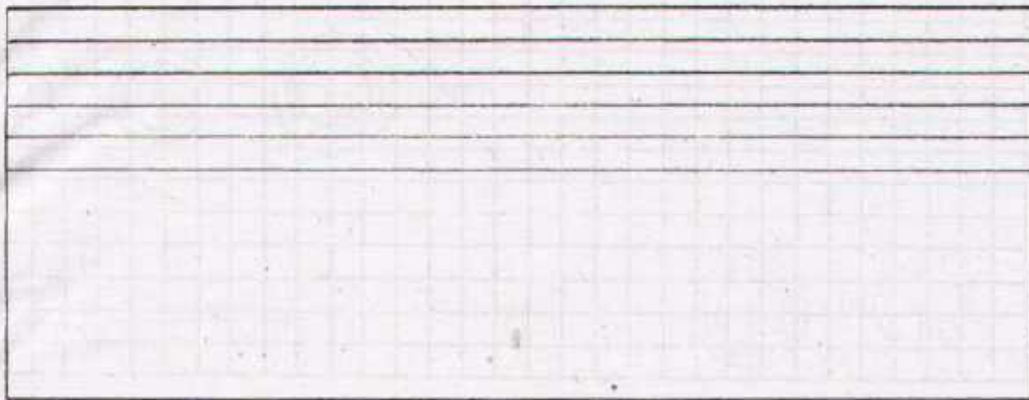


GOVERNMENT OF THE PUNJAB
TECHNICAL EDUCATION & VOCATIONAL TRAINING AUTHORITY
TRADE TESTING BOARD
DEVELOPMENT CELL LAHORE

T.T.P. Series No. 39

Price Rs. 70/-





Task

Complete the designs.

PRACTICE OF LINES

Drawn

Name _____
Date _____

Checked

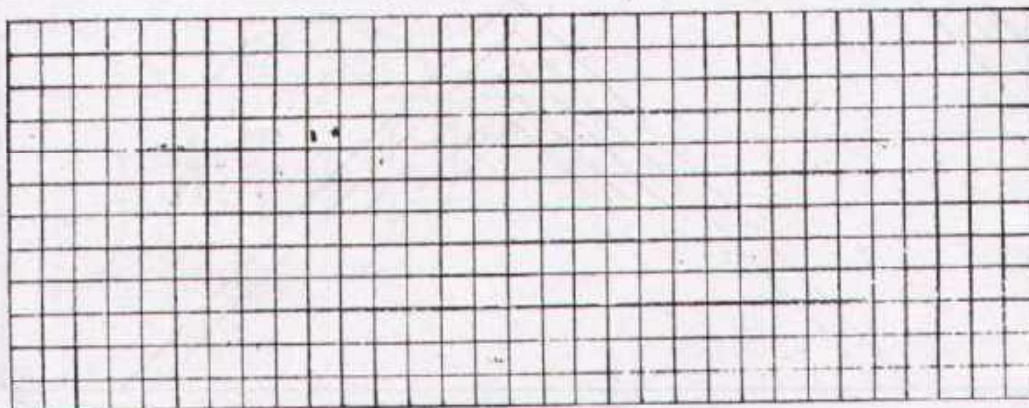
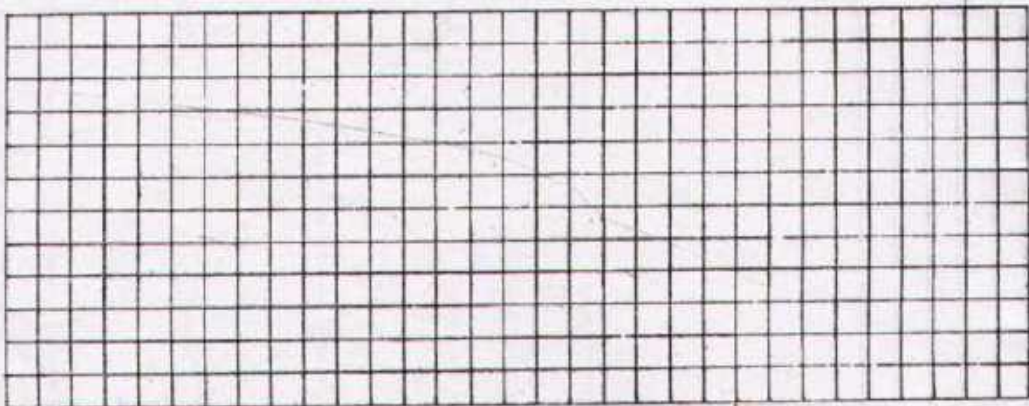
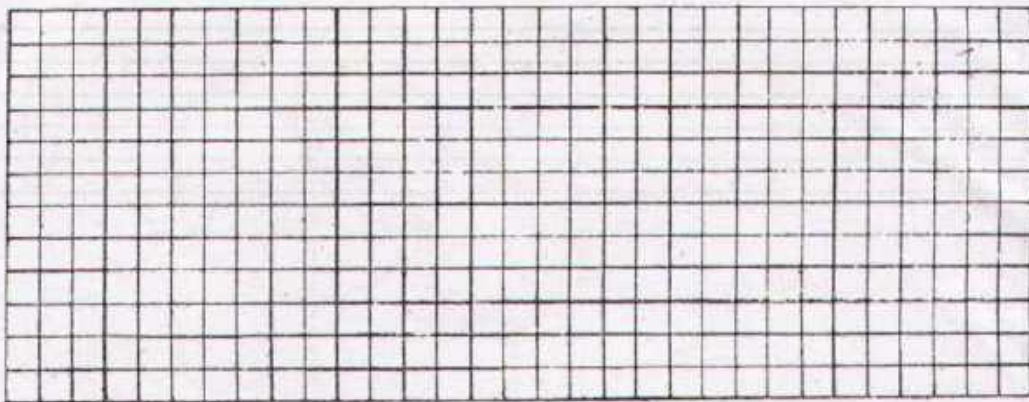
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice **1**
No. 1



Task

Draw regular patterns with straight lines according to your own choice.

PRACTICE OF LINES

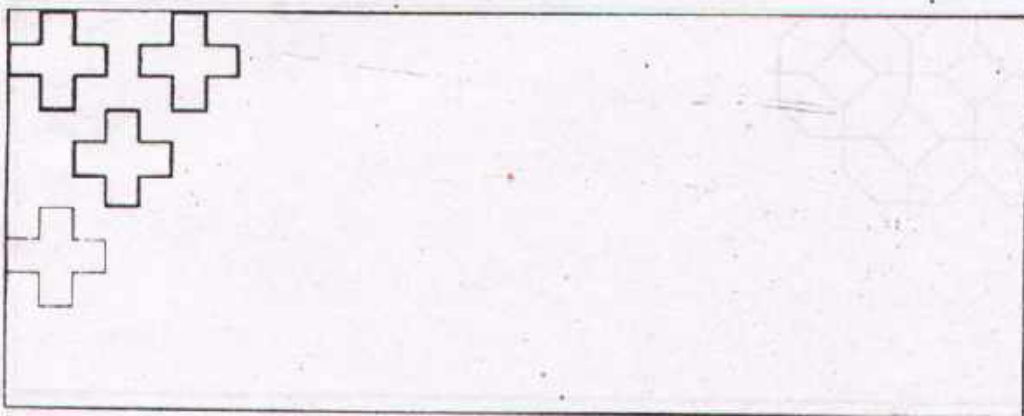
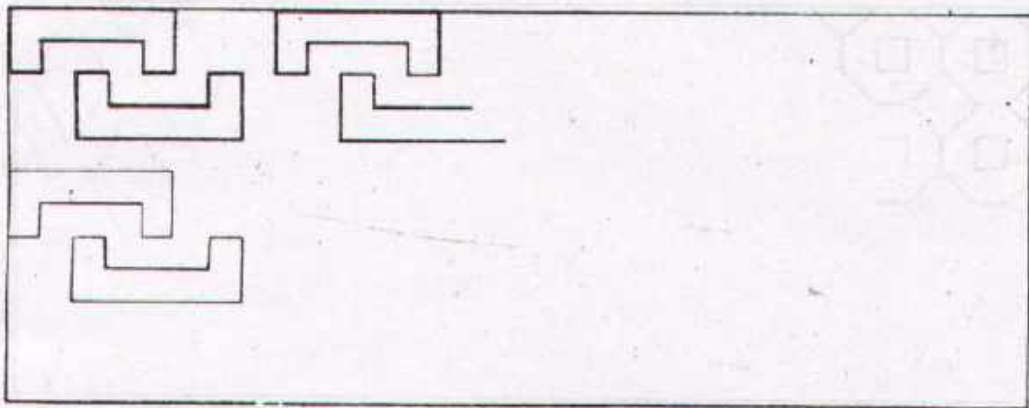
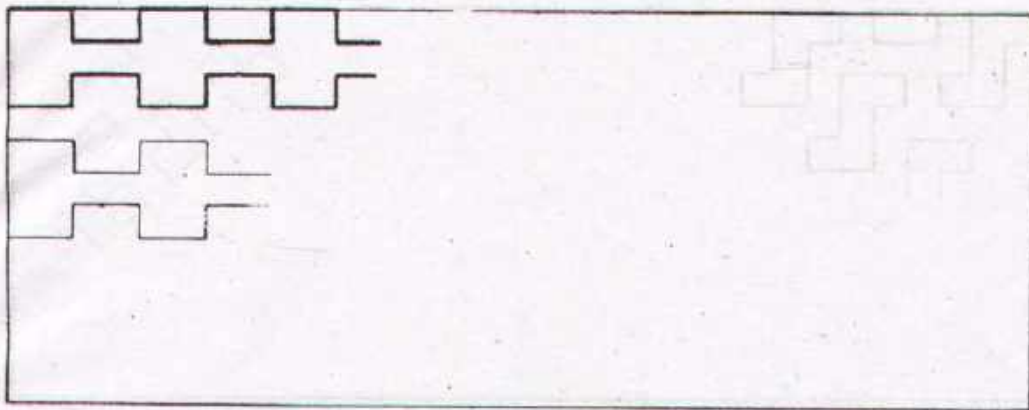
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice **1**
No. 2



Task

Complete each design according to the given examples

PRACTICE OF LINES

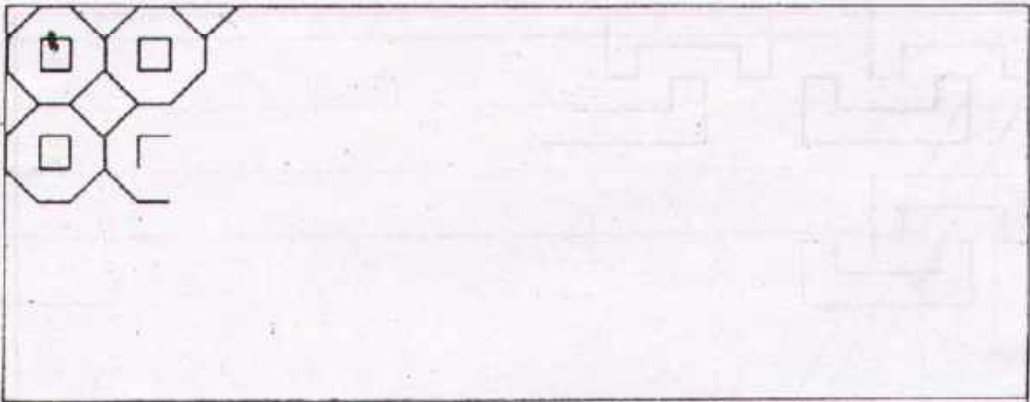
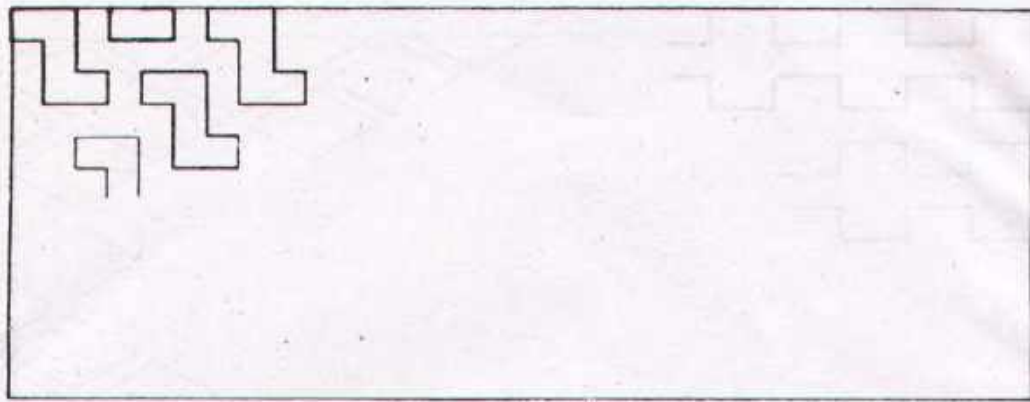
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade: 1
Practice
No. 3



Task:

Complete each design according to the given examples.

PRACTICE OF LINES

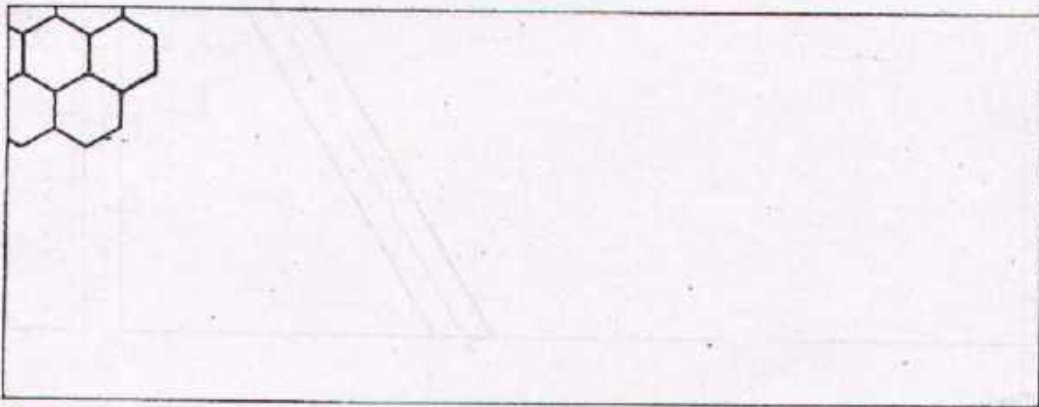
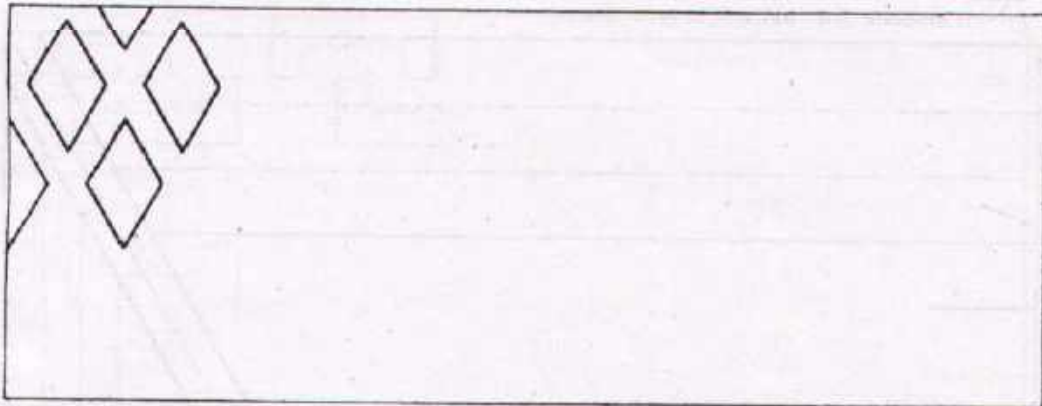
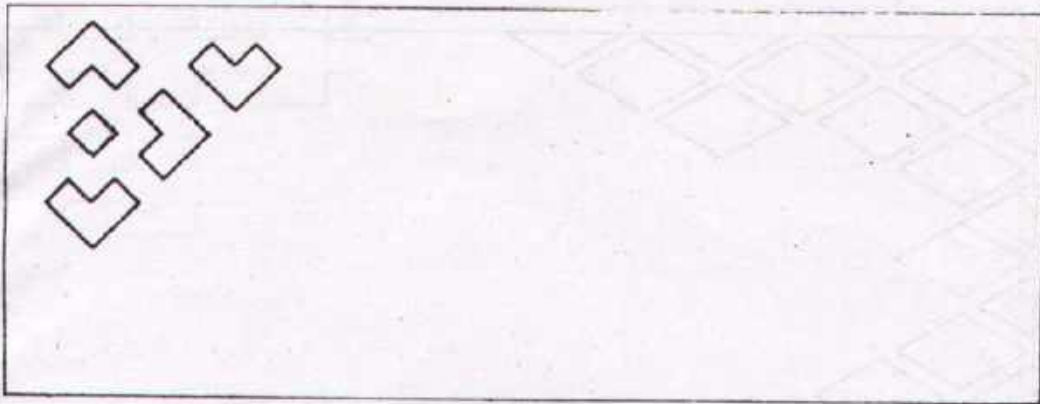
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice **1**
No. 4



Task:

Complete the each design according to the given examples

PRACTICE OF LINES

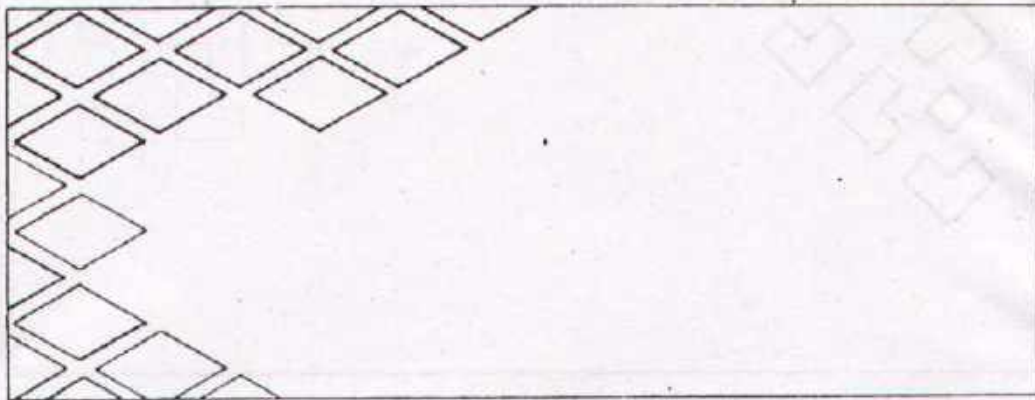
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

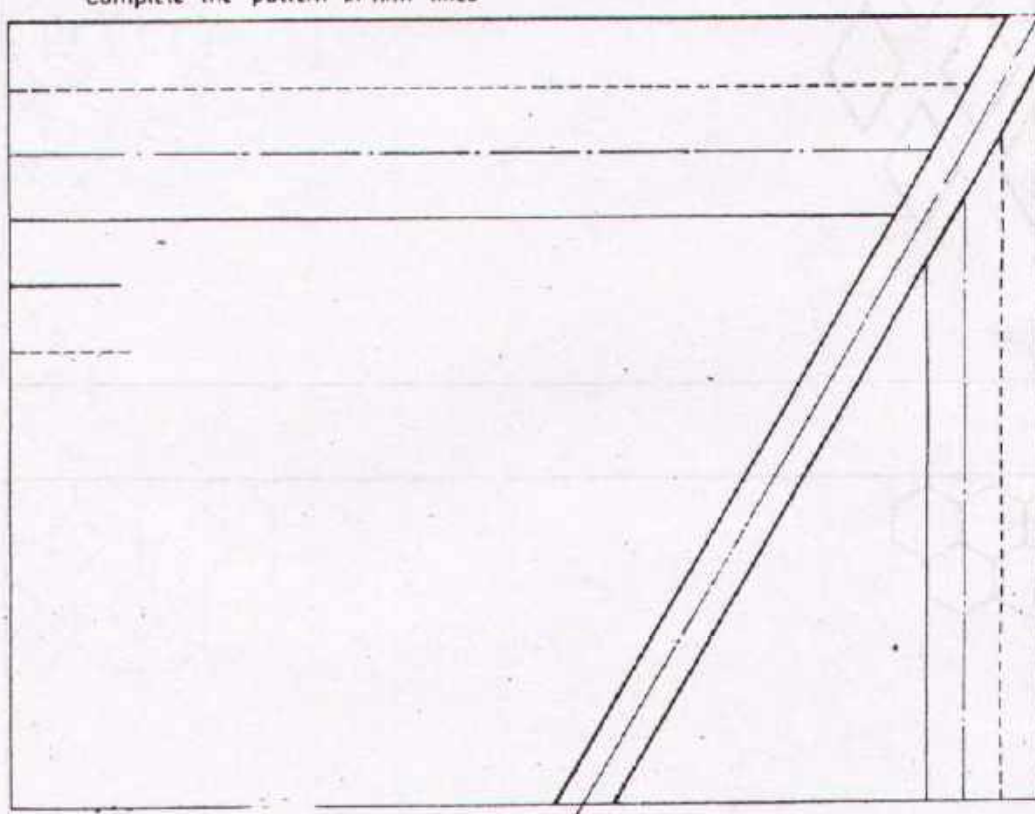
PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 5



Task:

Complete the pattern in firm lines



Task:

Complete the lines according to the given sequence

PRACTICE OF LINES

Drawn

Name _____
Date _____

Checked

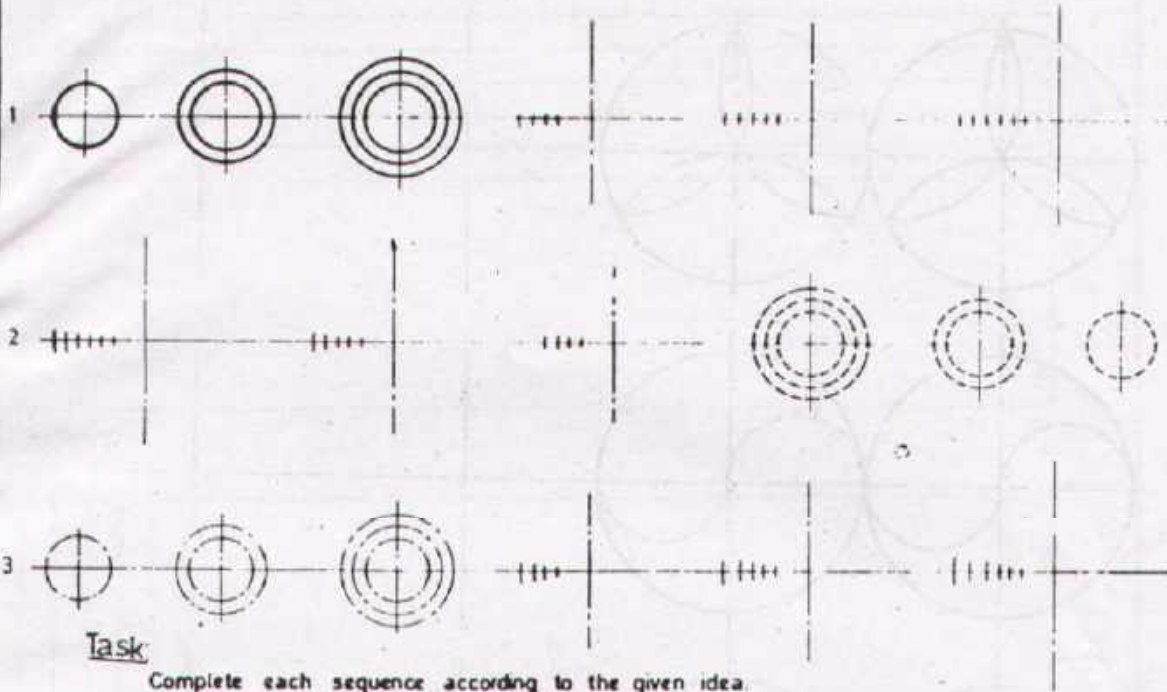
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

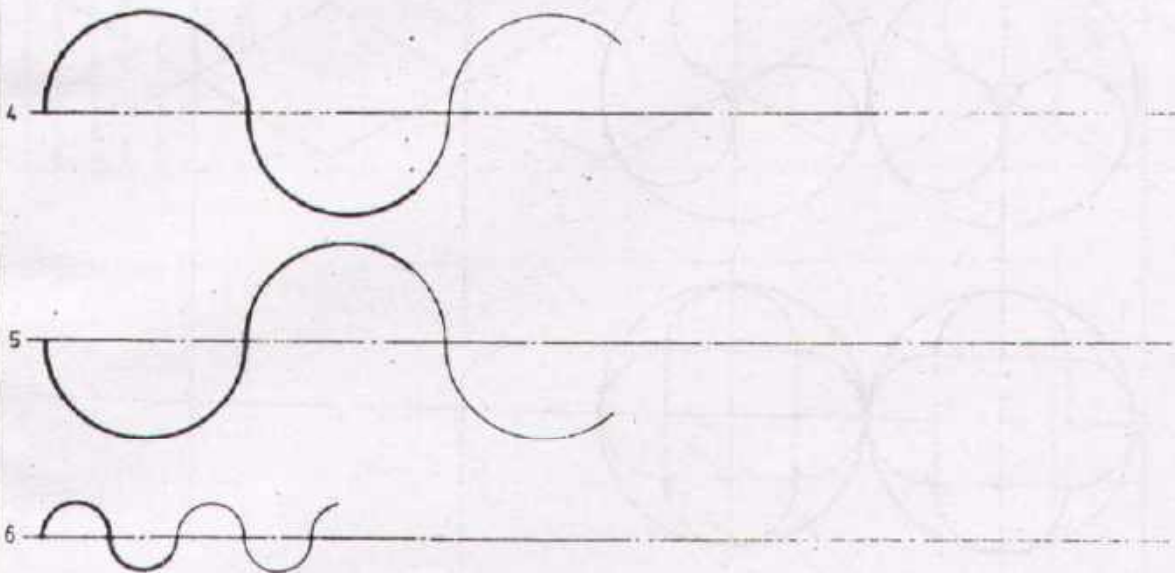
PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 6



Task

Complete each sequence according to the given idea.



Task

Complete each design according to the given idea.

PRACTICE OF CIRCLES

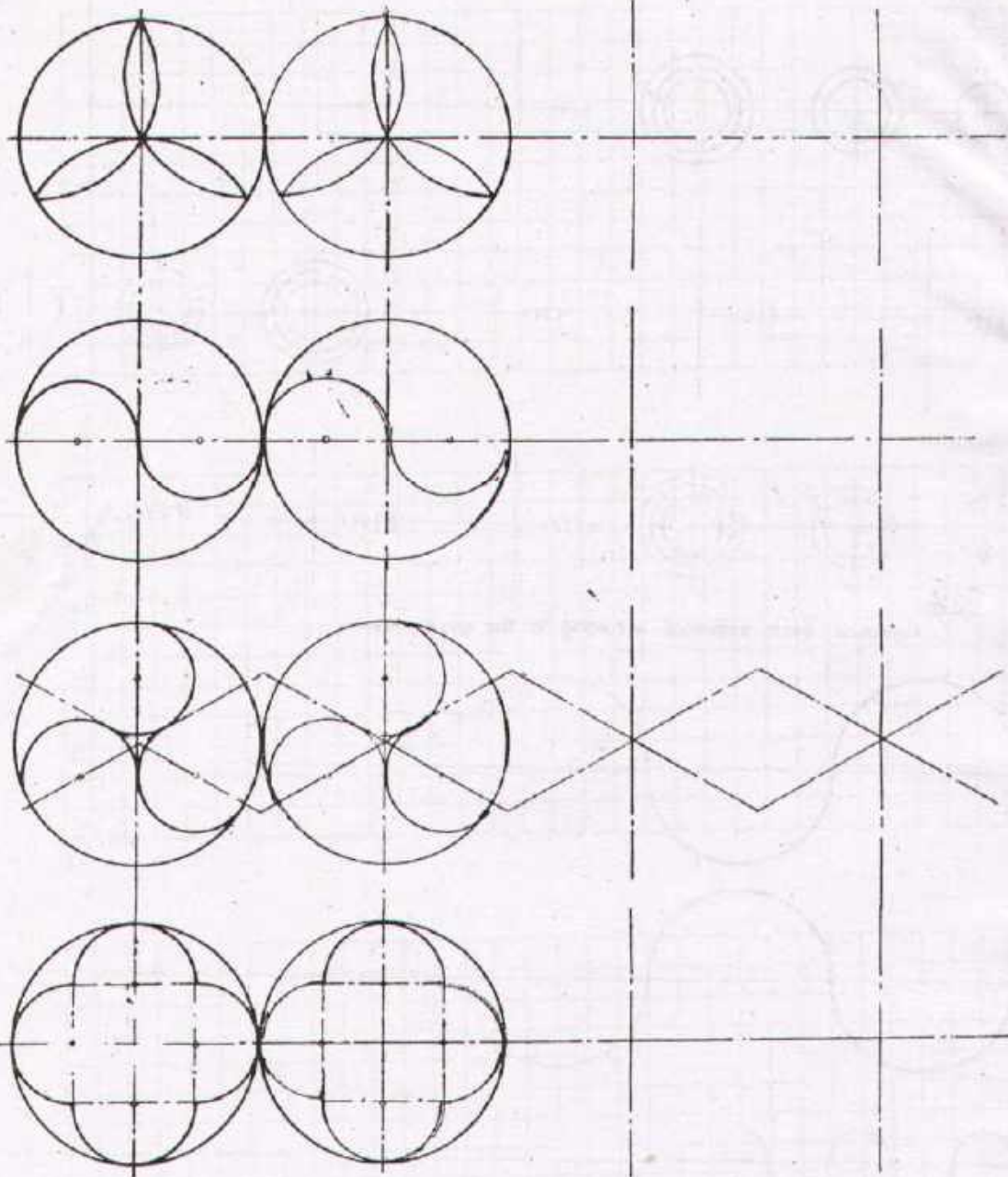
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice **1**
No. 7



Task

Complete the designs in firm lines according to the given examples.

PRACTICE OF RADII

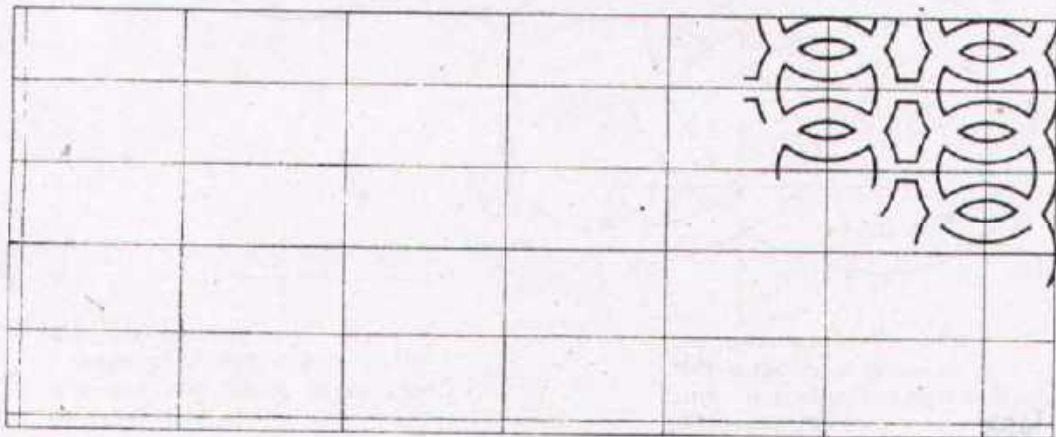
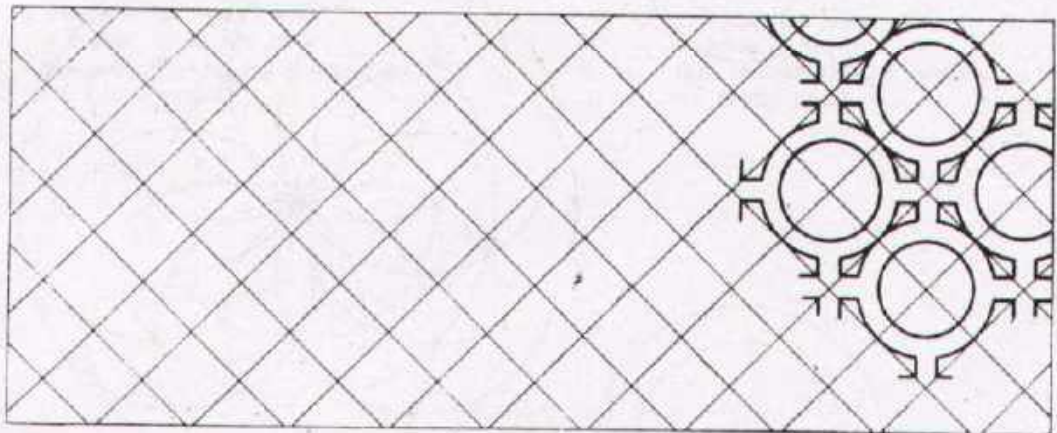
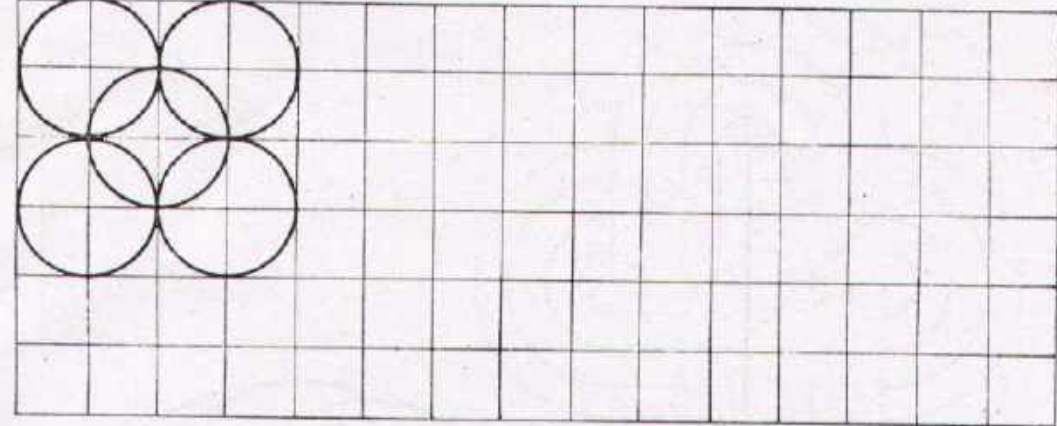
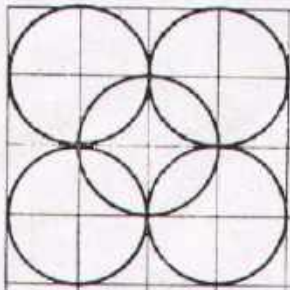
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 8



Task:

Complete each design according to the given examples.

PRACTICE OF CIRCLES

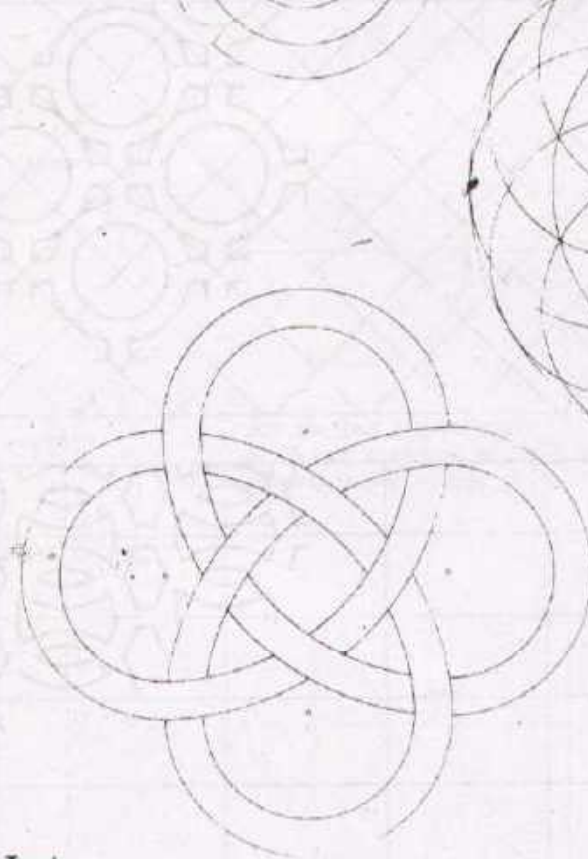
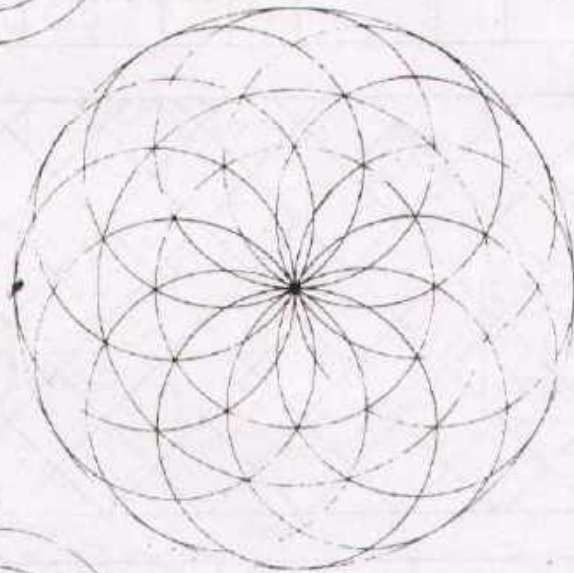
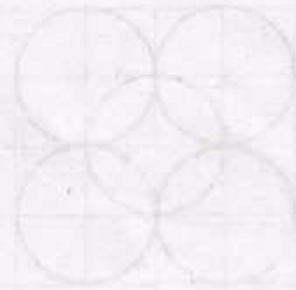
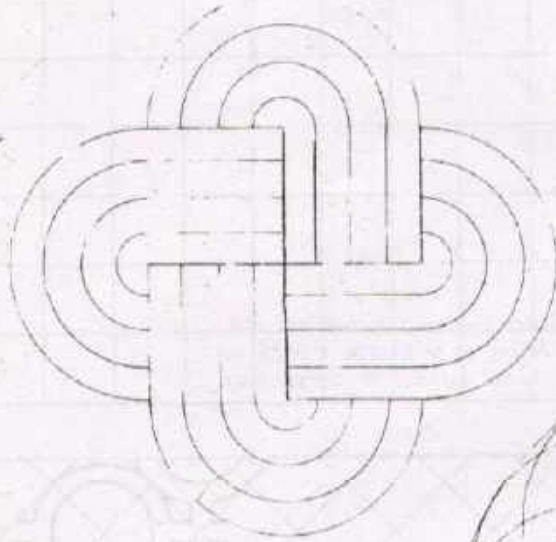
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 9



Task

Draw the above three figures in firm lines on a separate sheet.

PRACTICE OF ARCS

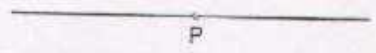
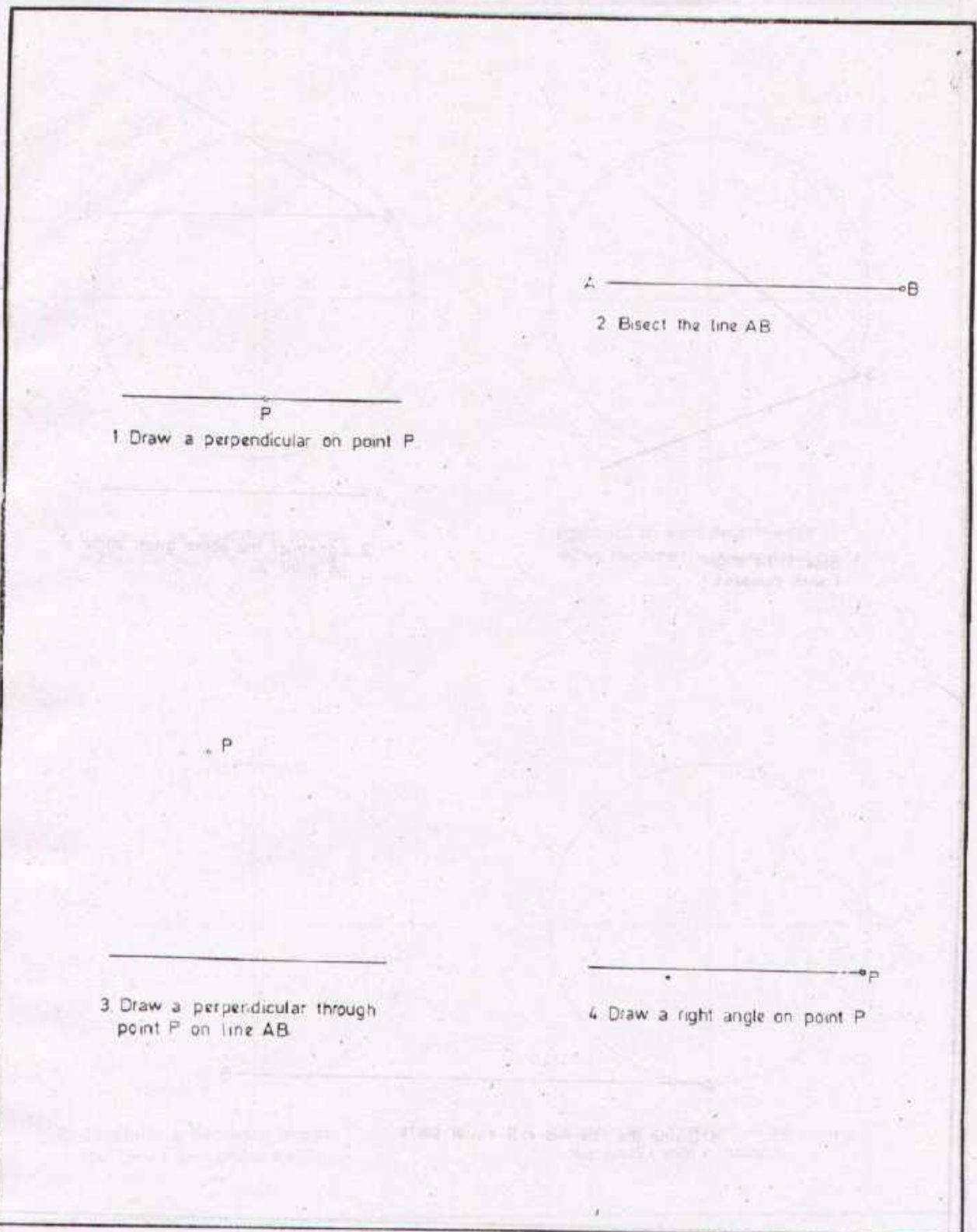
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No.10



1. Draw a perpendicular on point P.



2. Bisect the line AB.



3. Draw a perpendicular through point P on line AB.



4. Draw a right angle on point P.

GEOMETRICAL CONSTRUCTIONS

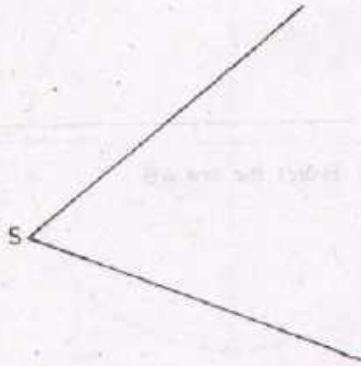
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



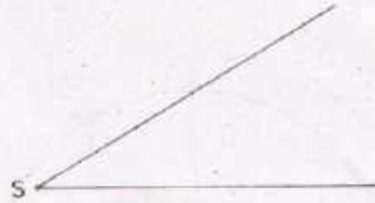
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No.11



1. Bisect the angle
(with compass)



2. Construct the above given angle
on point A.



3. Divide the line AB in 11 equal parts.

GEOMETRICAL CONSTRUCTIONS

Drawn

Name _____
Date _____

Checked

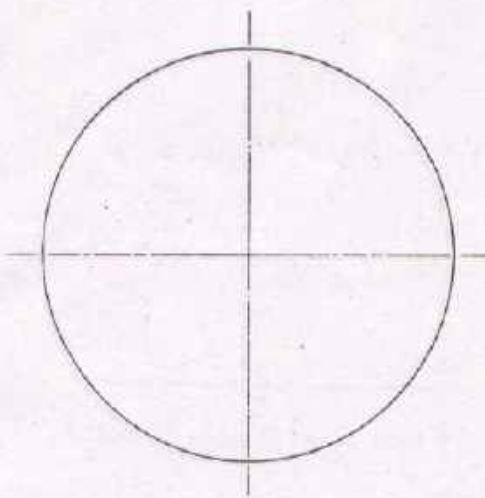
Name _____
Date _____



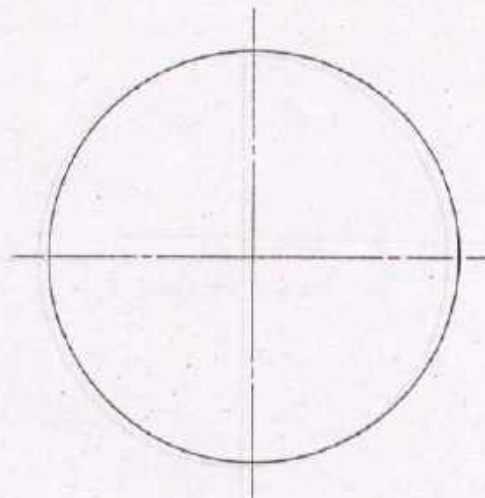
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

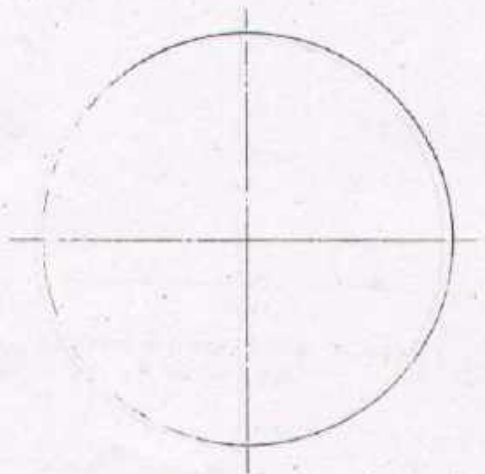
Trade Practice **1**
No 12



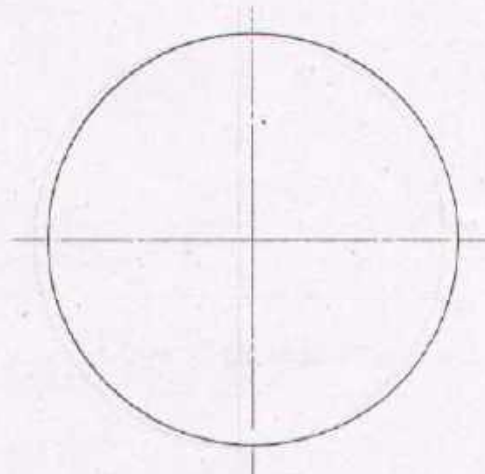
1. Construct an equilateral triangle within the circle (with set-square).



2. Construct an equilateral triangle within the circle (with compass).



3. Construct a pentagon within the circle (with protractor).



4. Construct a pentagon within the circle (with compass).

GEOMETRICAL CONSTRUCTIONS

Drawn

Name _____
Date _____

Checked

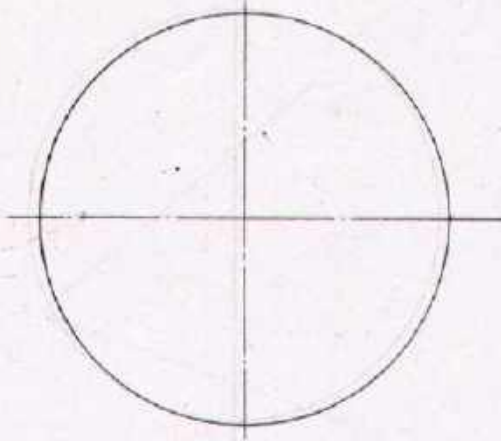
Name _____
Date _____



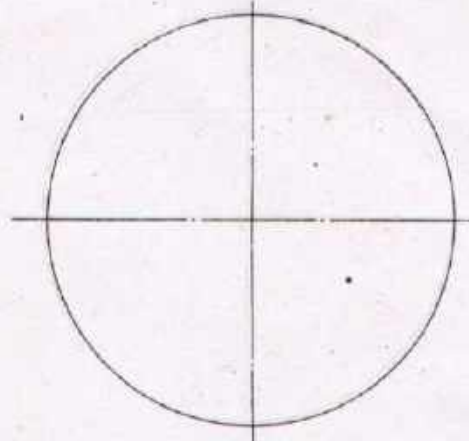
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

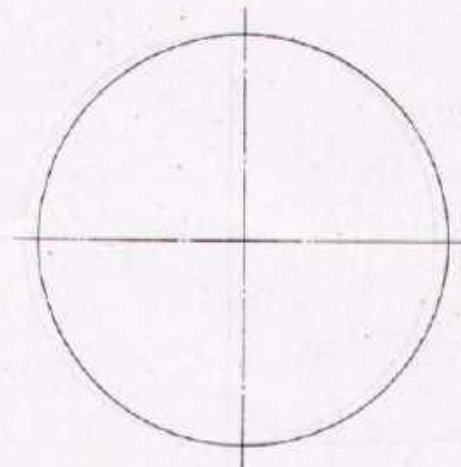
Trade Practice **1**
No.13



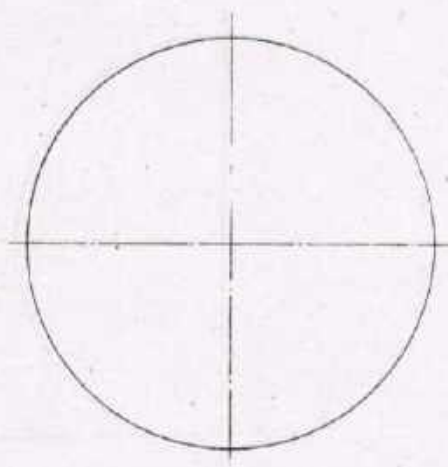
1. Construct a square within the circle (with set-square)



2. Construct an octagon within the circle (with set-square)



3. Construct a hexagon within the circle (with set square)



4. Construct a hexagon within the circle (with compass)

GEOMETRICAL CONSTRUCTIONS


| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|




DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

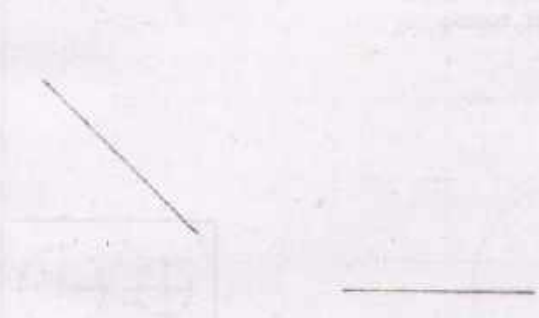
Trade Practice 1
No. 14



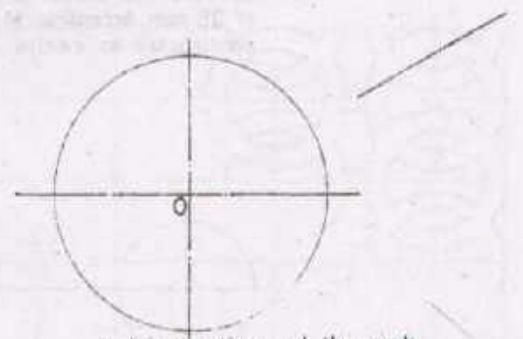
1. Join the two lines with a radius of 15 mm in a firm line, after having constructed its centre point.



2. Join the two lines with a radius of 10 mm in a firm line, after having constructed its centre point.



3. Join the two lines with a radius of 40 mm in a firm line, after having constructed its centre point.



4. Join the line and the circle with a radius of 15 mm in a firm line, after having constructed its centre point.

GEOMETRICAL CONSTRUCTIONS

Drawn

Name _____
Date _____

Checked

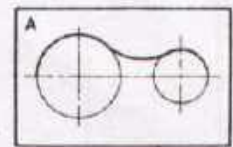
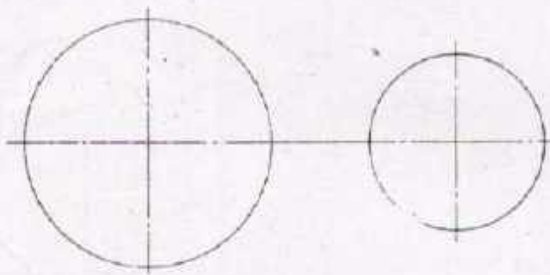
Name _____
Date _____



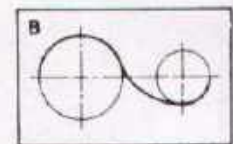
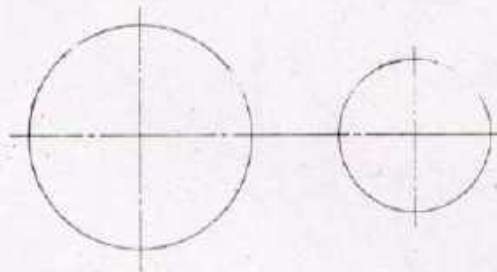
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

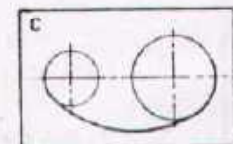
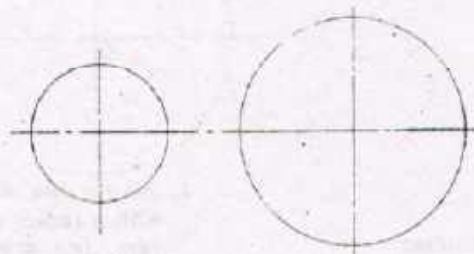
Trade
Practice **1**
No.15



Join the two circles tangentially with a radius of 25mm according to fig. A after having constructed its centre point.



Join the two circles tangentially with a radius of 25 mm according to fig. B, after having constructed its centre point.



Join the two circles tangentially with a radius of 50 mm according to fig. C, after having constructed its centre point.

GEOMETRICAL CONSTRUCTION

Drawn

Name _____
Date _____

Checked

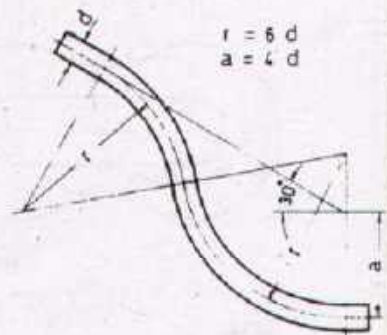
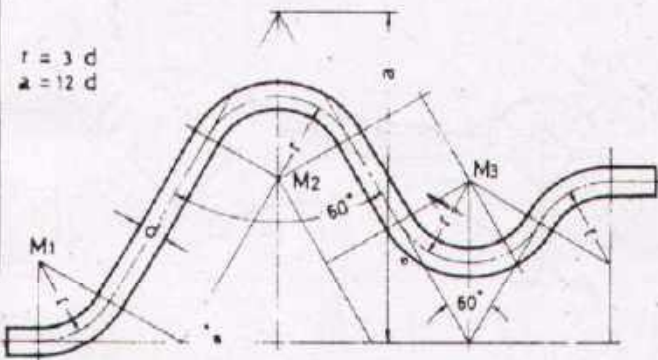
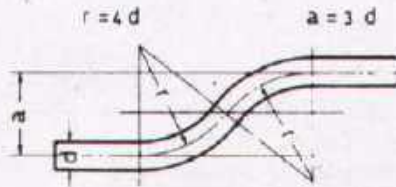
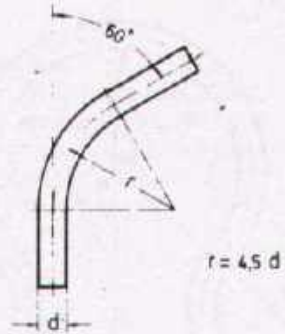
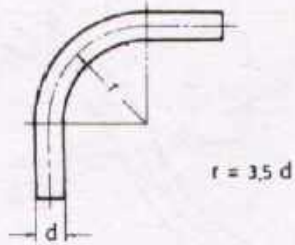
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

FAK - GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 16



Task:

Draw all the figures with construction work when $d=4$.

RADI IN PRACTICAL APPLICATION

| | | | |
|-------|--------------|---------|--------------|
| Drawn | Name Date | Checked | Name Date |
|-------|--------------|---------|--------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice
No 17

Fig. 1

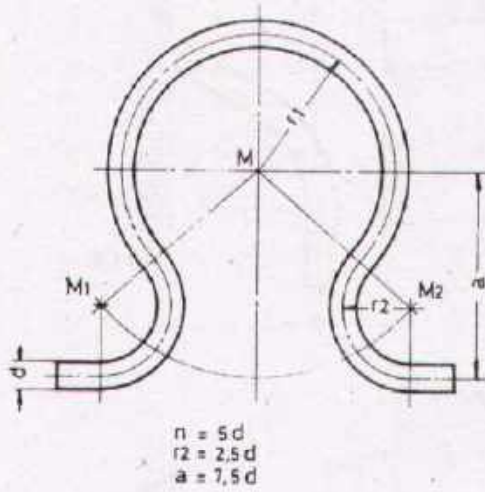


Fig. 2

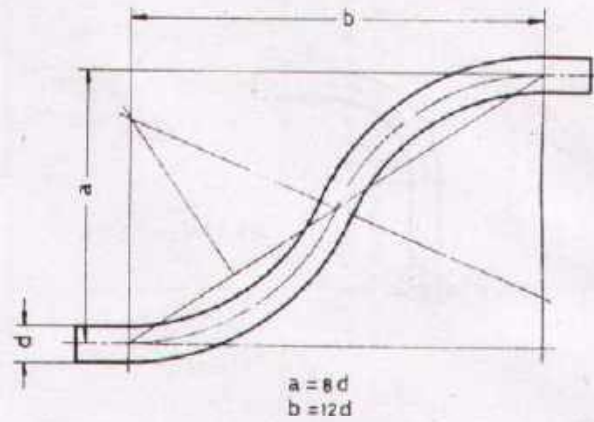


Fig. 3

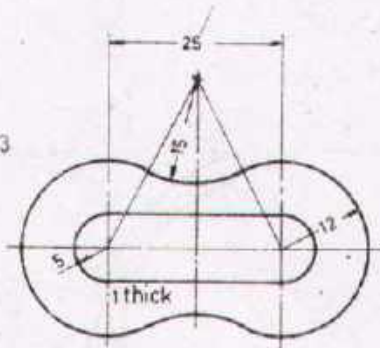
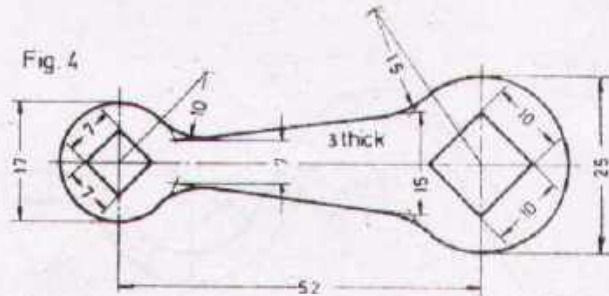


Fig. 4



Task:

1. Draw figures 1 and 2 with construction work when $d = 5$
2. Draw figures 3 and 4 in the same scale and enter the necessary dimensions.

RADI IN PRACTICAL APPLICATION

| | | | |
|-------|------------|---------|------------|
| Drawn | Name _____ | Checked | Name _____ |
| | Date _____ | | Date _____ |

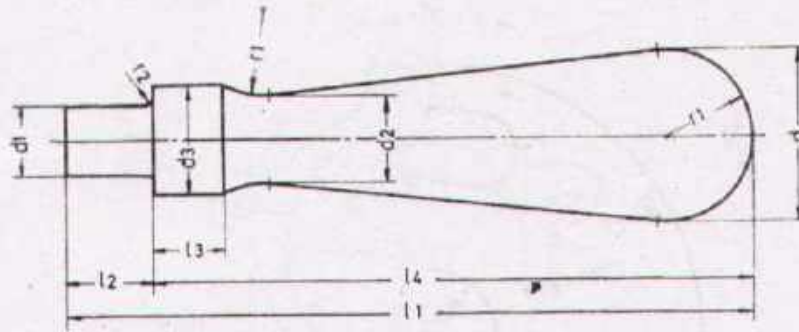


DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

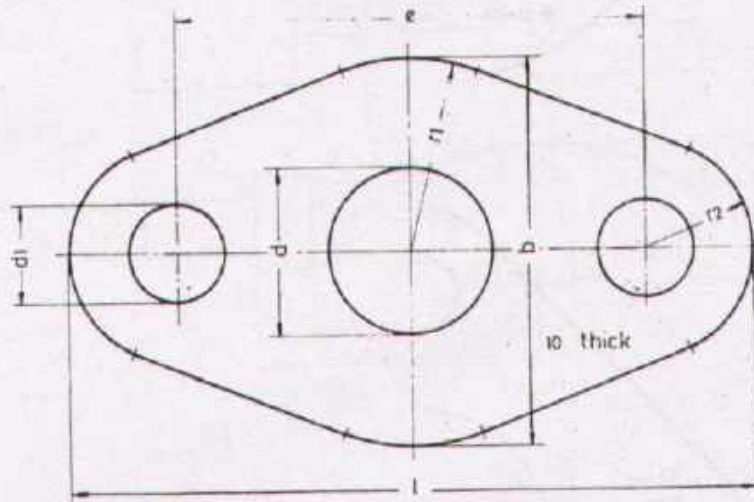
Trade Practice **1**
No.18

Fig.1



| d | d1 | d2 | d3 | l1 | l2 | l3 | l4 | r1 | r2 |
|----|----|----|----|-----|----|----|-----|------|-----|
| 16 | 7 | 8 | 10 | 63 | 13 | 7 | 50 | 8 | 1 |
| 25 | 10 | 13 | 16 | 100 | 20 | 10 | 80 | 12,5 | 1 |
| 36 | 16 | 18 | 22 | 140 | 28 | 14 | 112 | 18 | 1,5 |

Fig.2



| l | b | r1 | r2 | e | d | d1 |
|-----|----|------|----|----|----|------|
| 80 | 45 | 22,5 | 13 | 54 | 18 | 11,5 |
| 100 | 56 | 28 | 16 | 68 | 24 | 14 |
| 112 | 64 | 32 | 18 | 76 | 30 | 14 |

Task:

Draw figure 1, with $d=25$

Draw figure 2, with $d=24$

RADII IN PRACTICAL APPLICATION

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No.19

Fig.1

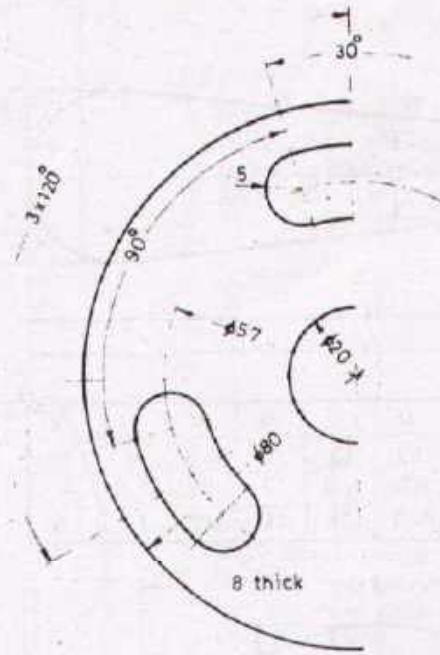


Fig.2



Task:

Draw the second symmetrical half portion of both figures

RADII IN PRACTICAL APPLICATION

Drawn

Name _____

Drawn _____

Checked

Name _____

Draw _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

POW GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 20

Fig.1

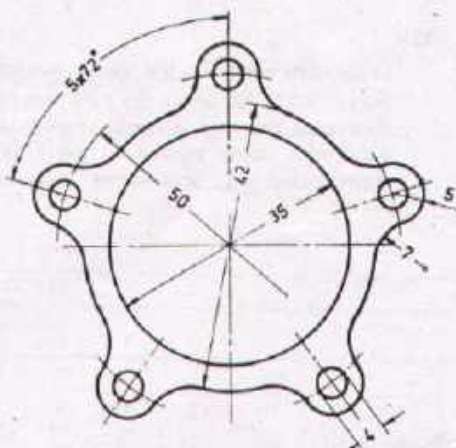
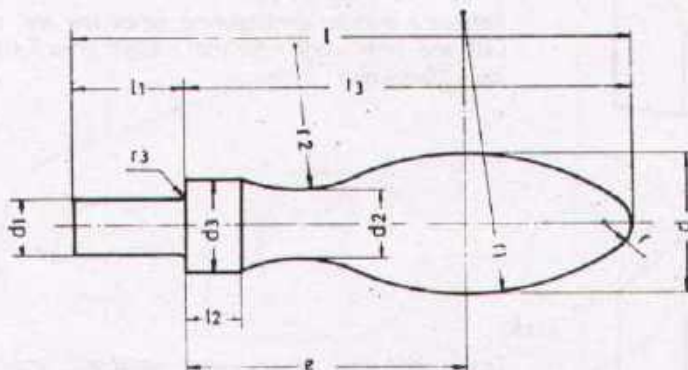


Fig. 2



| d | d ₁ | l | d ₂ | d ₃ | e | l ₁ | l ₂ | l ₃ | r | r ₁ | r ₂ | r ₃ |
|----|----------------|-----|----------------|----------------|----|----------------|----------------|----------------|-----|----------------|----------------|----------------|
| 13 | 5 | 50 | 6,5 | 8 | 25 | 10 | 5 | 40 | 2,5 | 24 | 14,5 | 0,5 |
| 20 | 8 | 80 | 10 | 13 | 40 | 16 | 8 | 64 | 4 | 40,5 | 21 | 0,8 |
| 32 | 13 | 125 | 16 | 20 | 64 | 25 | 13 | 100 | 6 | 56 | 40,5 | 0,8 |

Task:

1. Draw figure 1 in the same scale.
2. Draw figure 2 with $d = 20$
3. Enter all necessary dimensions.

RADI IN PRACTICAL APPLICATION

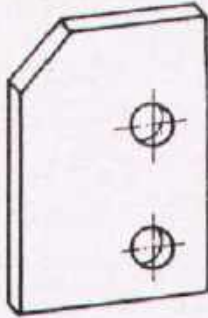
| | | | |
|-------|------|---------|------|
| Drawn | Name | Checked | Name |
| | Date | | Date |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

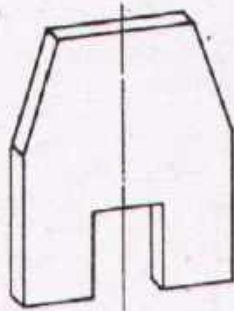
PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 21



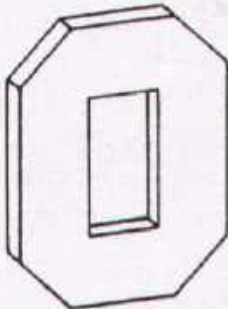
Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 55 x 80 mm, sheet thickness = 10 mm.
 Reference lines for dimensioning: lower and right edge. Left edge = 65, upper edge = 40, pitch of holes from right = 15 from below = 15 and 50 mm, hole dia = 12 mm.



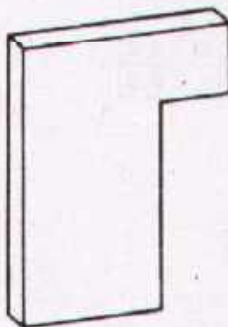
Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 60 x 80 mm, sheet thickness = 10 mm.
 Reference lines for dimensioning: centre line and lower edge. Left and right edge = 55 mm, upper edge = 40 mm, job = 20 x 35 mm.



Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 60 x 80 mm, sheet thickness = 10 mm.
 Reference lines for dimensioning: centre lines. Left and right edge = 50, upper and lower edge = 30 mm, breaking through = 20 x 40 mm.



Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 60 x 80 mm, sheet thickness = 12 mm.
 Reference lines for dimensioning: lower and right edge. job = 20 x 60 mm.

DIMENSIONING OF FLAT WORKPIECES

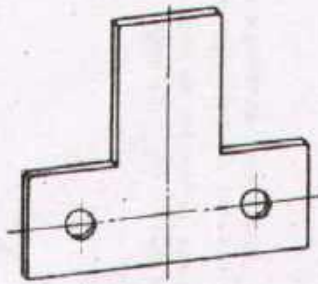
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

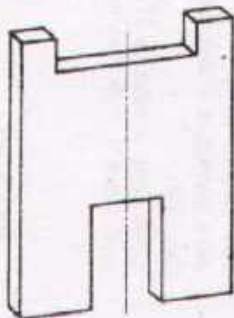
PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 22



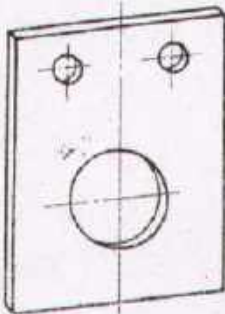
Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 70x80 mm, sheet thickness = 5 mm.
 Reference lines for dimensioning: vertical centre line and lower edge. Upper edge = 30 mm, step = 30 mm high, distance of holes: from each others = 50 mm, from below = 15 mm, hole dia = 10 mm.



Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 60x80 mm, sheet thickness = 10 mm.
 Reference lines for dimensioning: centre line and lower edge. Lower job = 20 x 30 mm, upper job = 40 mm wide, 70 mm from below.



Task:

Draw one view of the given workpiece. Scale 1:1.
 Basic form: rectangle 60x80 mm, sheet thickness = 8 mm.
 Reference line for dimensioning: centre line for the big hole, distance of reference line from the lower edge = 30 mm, pitch of upper holes = 30 mm, from the reference line = 40 mm, diameter of the big hole = 30 mm and the small holes dia = 10 mm.

DIMENSIONING OF FLAT WORKPIECES

| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|

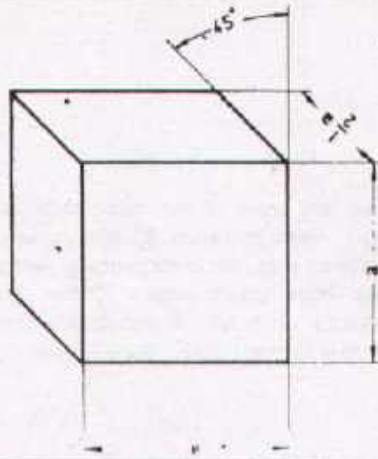


DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No 23

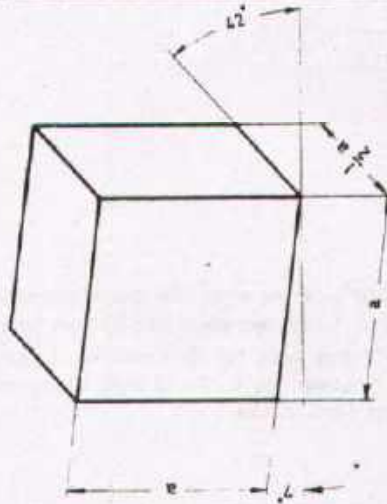
OBLIQUE PROJECTION



An oblique with an oblique edge of 45° is called „Cavalier Projection.“
Oblique dimensions are reduced to half that of their true length.

a = Actual size

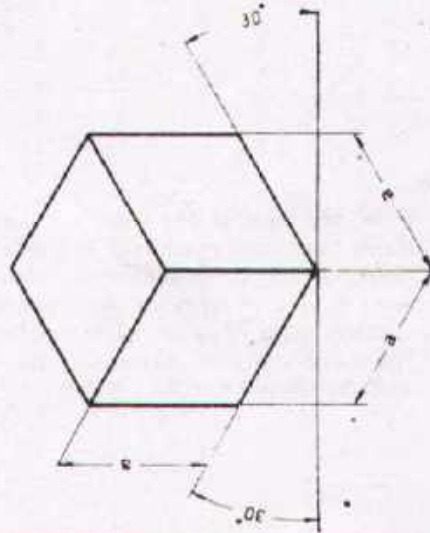
DIMETRIC PROJECTION



Perpendicular dimensions and dimensions parallel to γ axis are given in full scale.
Dimensions parallel to 45° axis are reproduced in half their true length.

a = Actual size

ISOMETRIC PROJECTION



All dimensions are given in equal scale

a = Actual size

PICTORIAL DRAWING
(INFORMATION SHEET)

Drawn

Name _____
Date _____

Checked

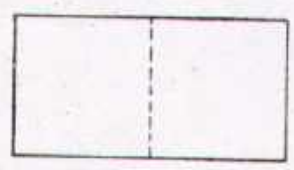
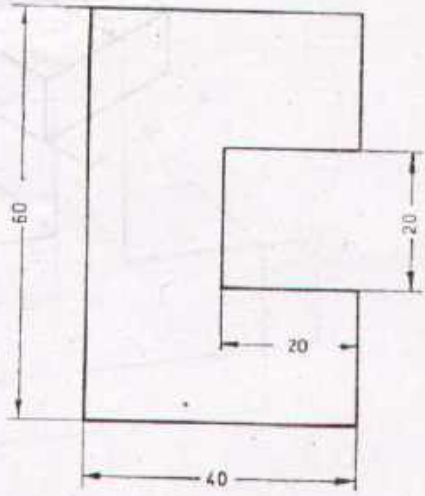
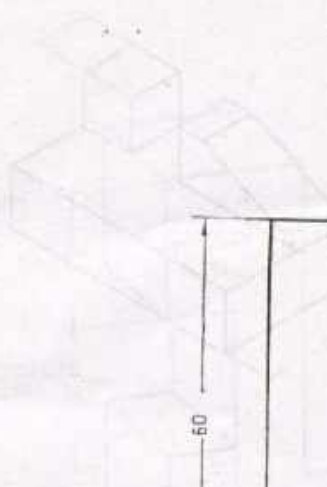
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME


Trade Practice **1**
No. 24

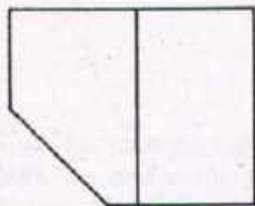
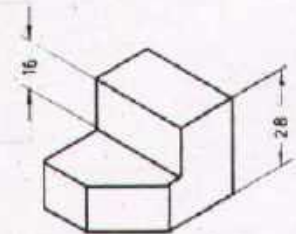
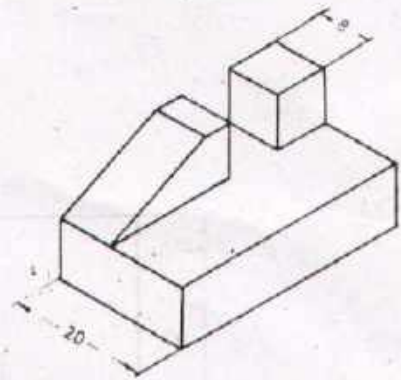
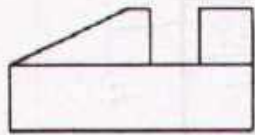


Task:

Draw the body given in parallel projection in three different pictorial views (DIMETRIC, ISOMETRIC, OBLIQUE PROJECTION). enter the necessary dimensions. Scale: full size.




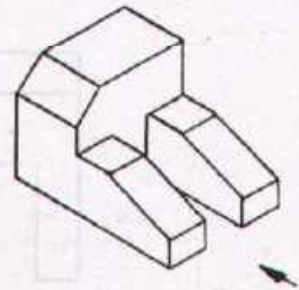
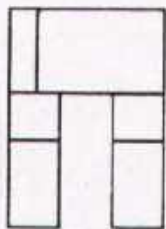
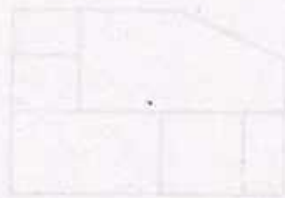
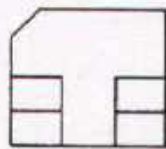
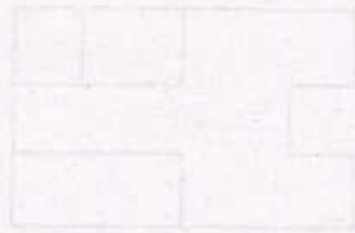
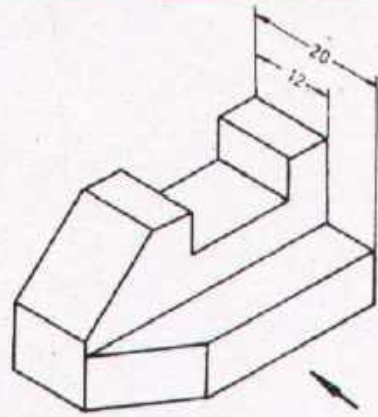
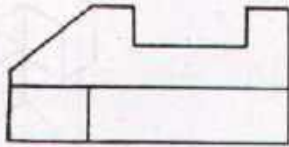
| | | | |
|--|----------------------------|----------------|--------------------------------------|
| Scale: 1:1 | PRISMATIC BODIES | | PICTORIAL REPRESENTATION |
| Drawn: _____ | Name: _____ Date: _____ | Checked: _____ | Name: _____ Date: _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade 1 Practice No. 25 |



Task


Draw the missing views and enter the necessary dimensions.

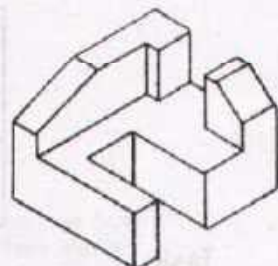
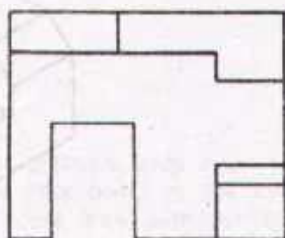
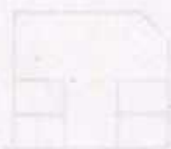
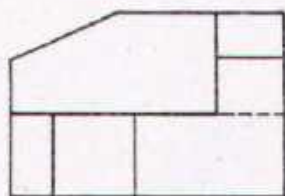
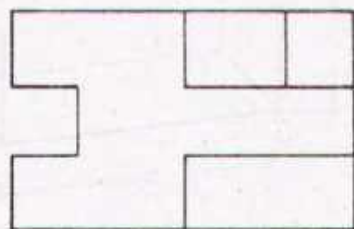
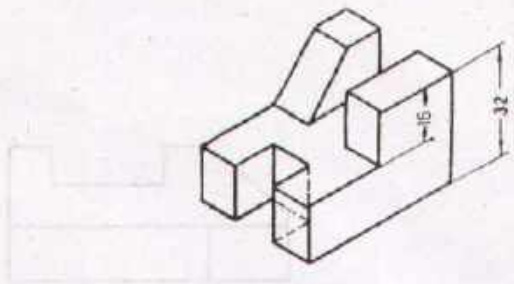
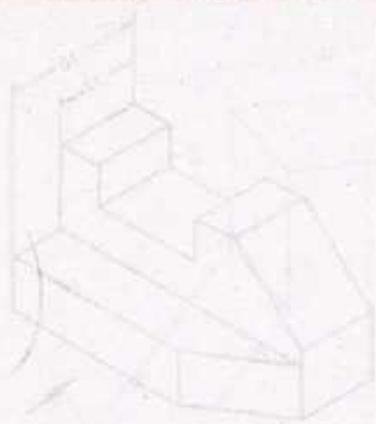
| | | | |
|--|--------------------------|---------|---|
| Scale 1:1 | PRISMATIC BODIES | | PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No.26 |



Task:


Complete the missing views and enter the necessary dimensions

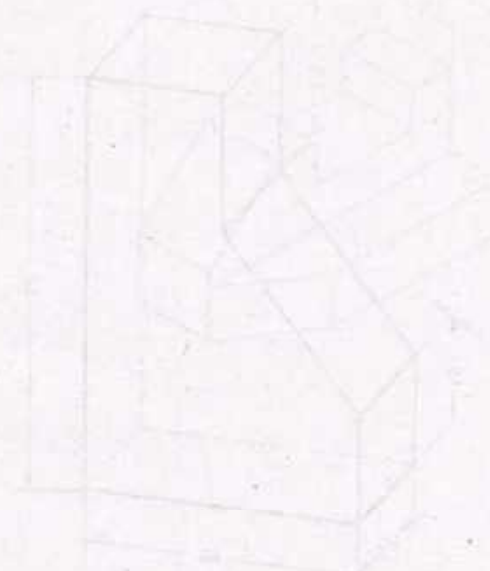
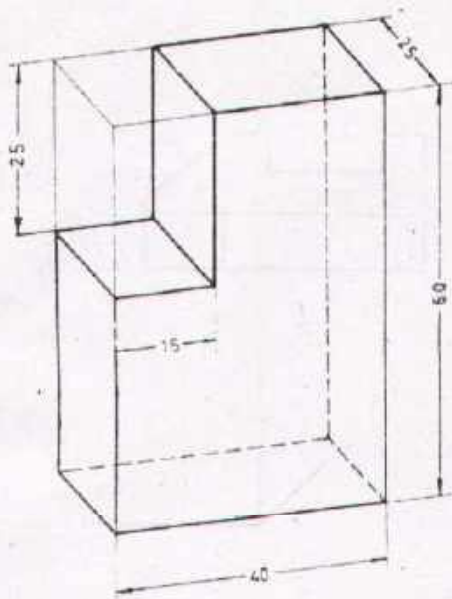
| | | | |
|---|--------------------------|---------|-----------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 27 |



Task

Complete the missing views and enter the necessary dimensions.

| | | | |
|--|--------------------------|---------|--|
| Scale 1:1 | PRISMATIC BODIES | | PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 28 |



Task

Draw the prismatic body in an oblique projection, draw the three views in scale 1:1
 Mark the edge points in the three-dimensional figure and in the three views.
 Invisible edges draw with thin dashed lines

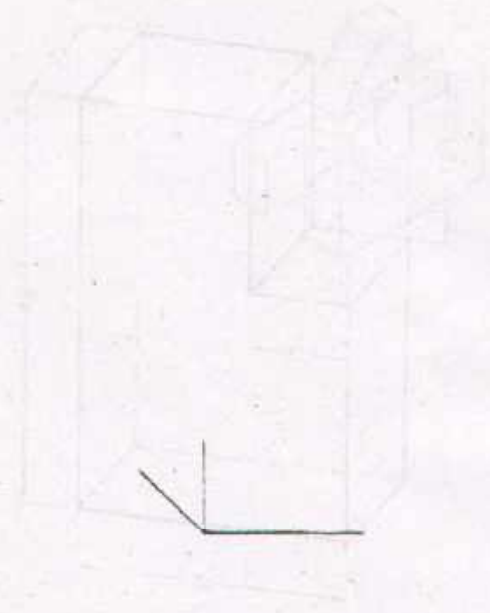
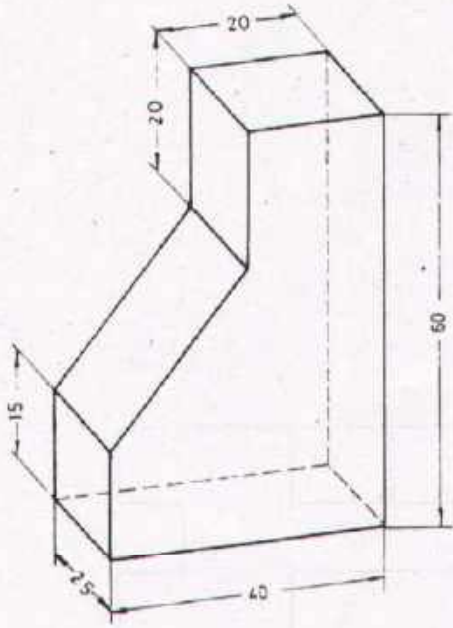
| | | | | |
|-----------|--------------------------|---------|----------------------------------|--|
| Scale 1:1 | PRISMATIC BODIES | | OBLIQUE & PARALLEL PROJECTION | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 29



Task:

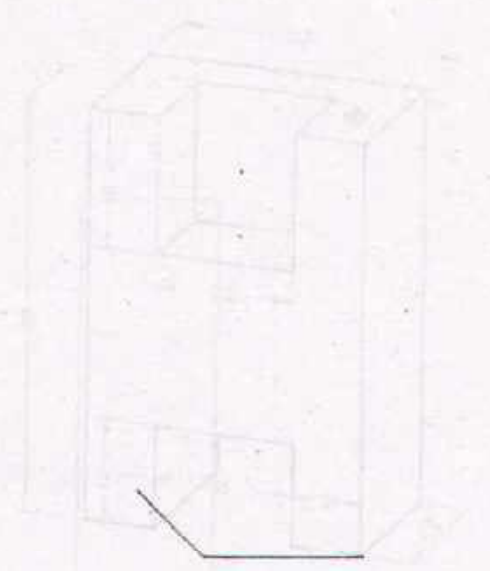
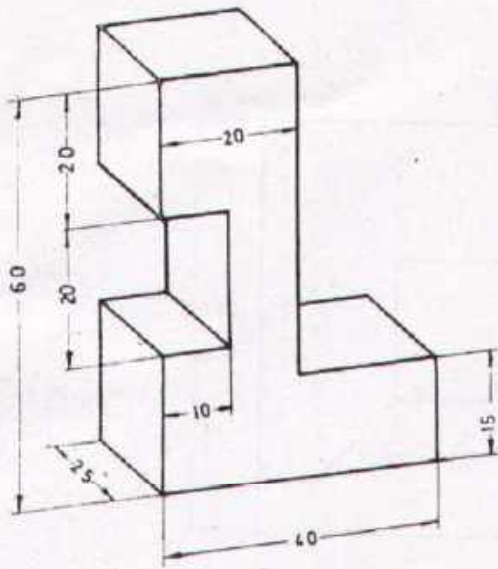
Draw the prismatic body in an oblique projection, draw the three views in scale 1:1. Mark the edge points in the three-dimensional figure and in the three views. Invisible edges draw with thin dashed lines.

| | | | |
|--------------|--------------------------|---------------|----------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | OBLIQUE & PARALLEL PROJECTION |
| Drawn: _____ | Name _____ Date _____ | Checked _____ | Name _____ Date _____ |




DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING
PAK-GERMAN TECHNICAL TRAINING PROGRAMME

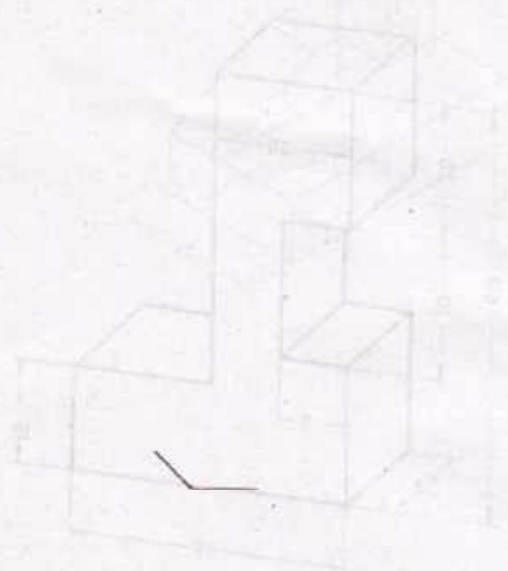
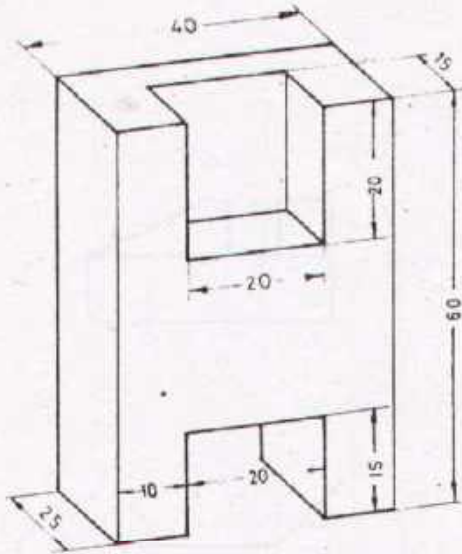
Trade **1**
Practice
No 30



Task:


Draw the prismatic body in an oblique projection, draw three views in scale 1:1
 Mark the edge points in the three-dimensional figure and in the three views
 Invisible edges draw with thin dashed lines.

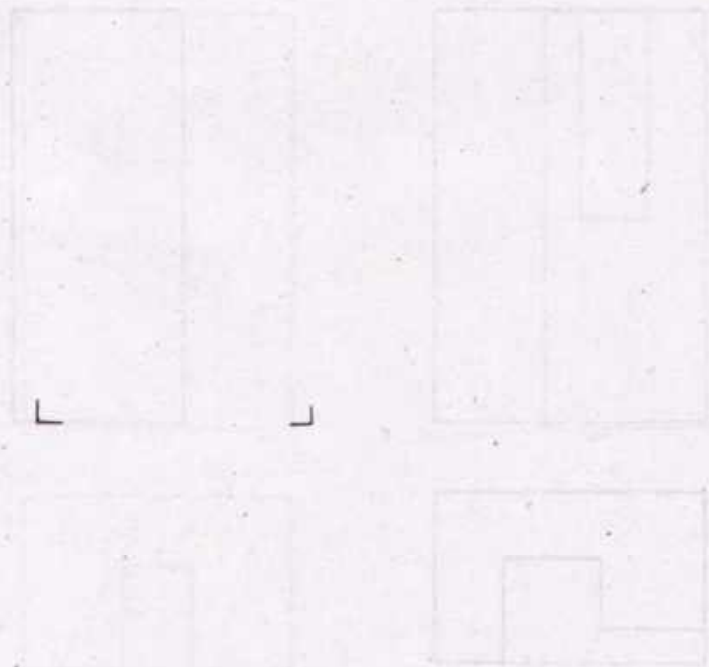
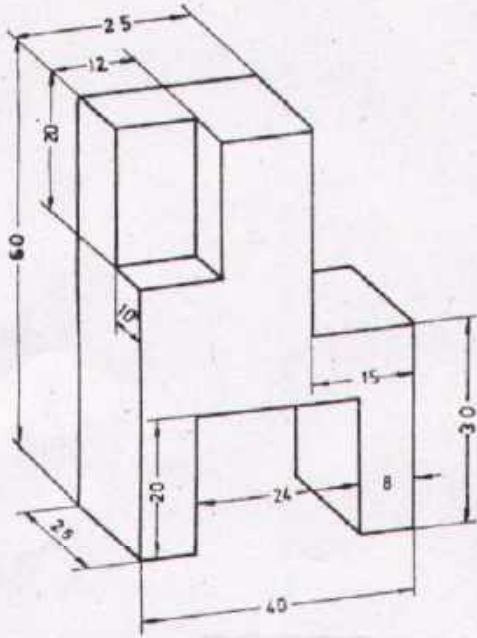
| | | | |
|--|--------------------------|---------|-------------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | OBLIQUE & PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade 1 Practice No.31 |



Task


Draw the prismatic body in an oblique projection, draw the three views in scale 1:1. Mark the edge points in the three-dimensional figure and in the three views. Invisible edges draw with thin dashed lines.

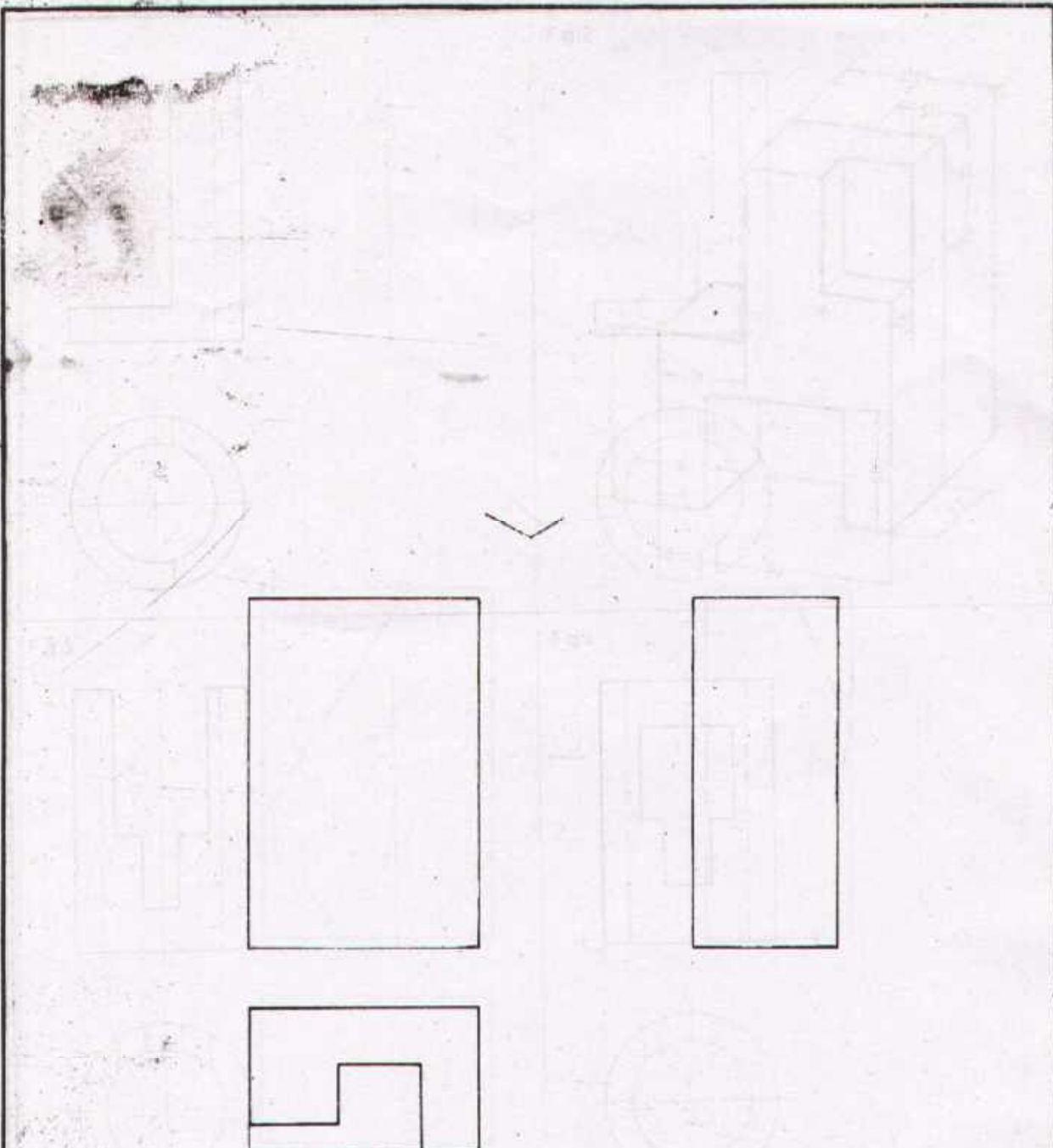
| | | | | |
|--|--------------------------|---------|-----------------------------------|--|
| Scale 1:1 | PRISMATIC BODIES | | OBLIQUE & PARALLEL PROJECTION | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 32 | |



Task


Draw the prismatic body in an oblique projection, draw three views in scale 1:1. Mark the edge points in the three-dimensional figure and in the three views. Invisible edges draw with thin dashed lines.

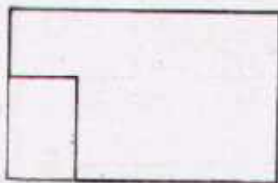
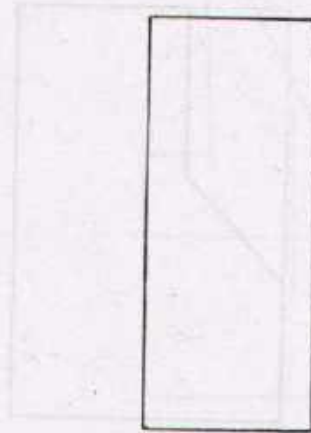
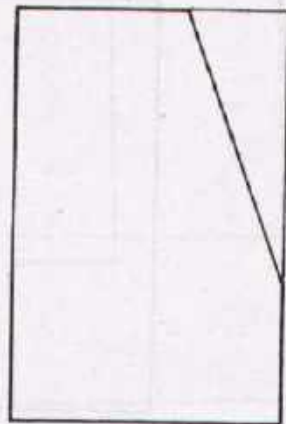
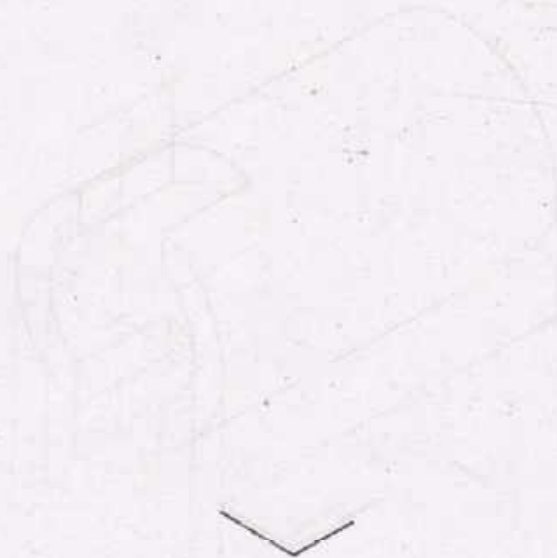
| | | | | |
|--|--------------------------|---------|--------------------------------------|--|
| Scale 1:1 | PRISMATIC BODIES | | OBLIQUE & PARALLEL PROJECTION | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade 1 Practice No. 33 | |



Task:


Draw the elevation and side views
 Draw the prismatic body in isometric projection with dimensions.

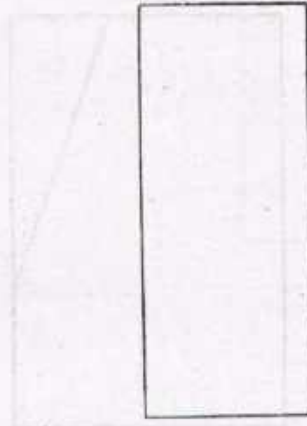
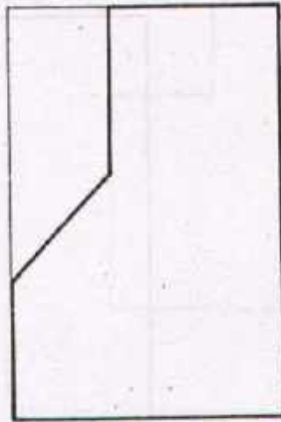
| | | | |
|---|--------------------------|---------|------------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | ISOMETRIC & PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING <small>PAK GERMAN TECHNICAL TRAINING PROGRAMME</small> | | | Trade Practice 1 No. 34 |



Task:

Draw the side view, complete the elevation and plan views.
 Draw the ~~prismatic~~ body in isometric projection with dimensions


| | | | | |
|--|--------------------------|---------|------------------------------------|--|
| Scale 1:1 | PRISMATIC BODIES | | ISOMETRIC & PARALLEL PROJECTION | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 35 | |

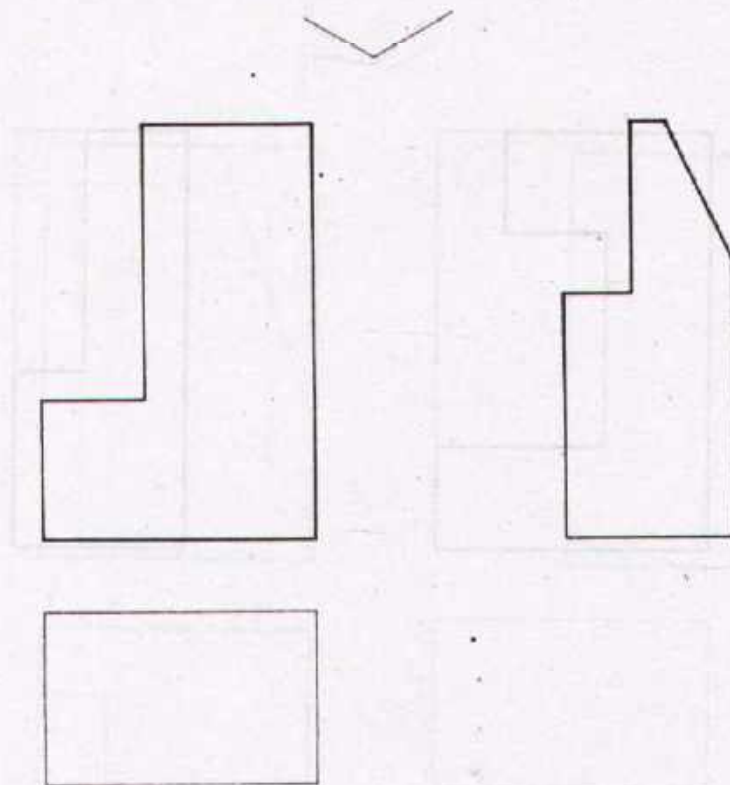


Task:

Draw the side and plan views.


Draw the prismatic body in isometric projection with dimensions

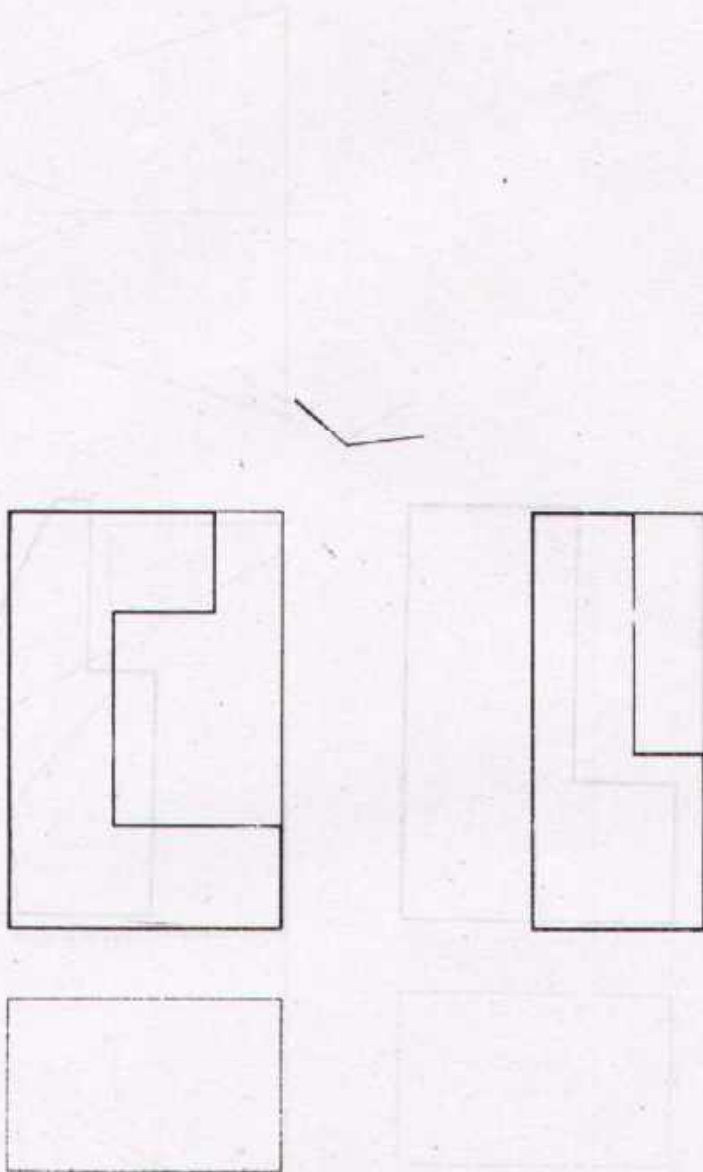
| | | | |
|--|--------------------------|---------|---------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | ISOMETRIC & PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING | | | Trade Practice 1 |
| PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | No 36 |



Task:

Complete the elevation and side views, draw the plan view.
 Draw the prismatic body in isometric projection with dimensions.

| | | | | |
|---|--------------------------|---------|---|--|
| Scale 1:1 | PRISMATIC BODIES | | ISOMETRIC & PARALLEL PROJECTION | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING <small>FAK GERMAN TECHNICAL TRAINING PROGRAMME</small> | | | Trade Practice 1 No.37 | |



Task:

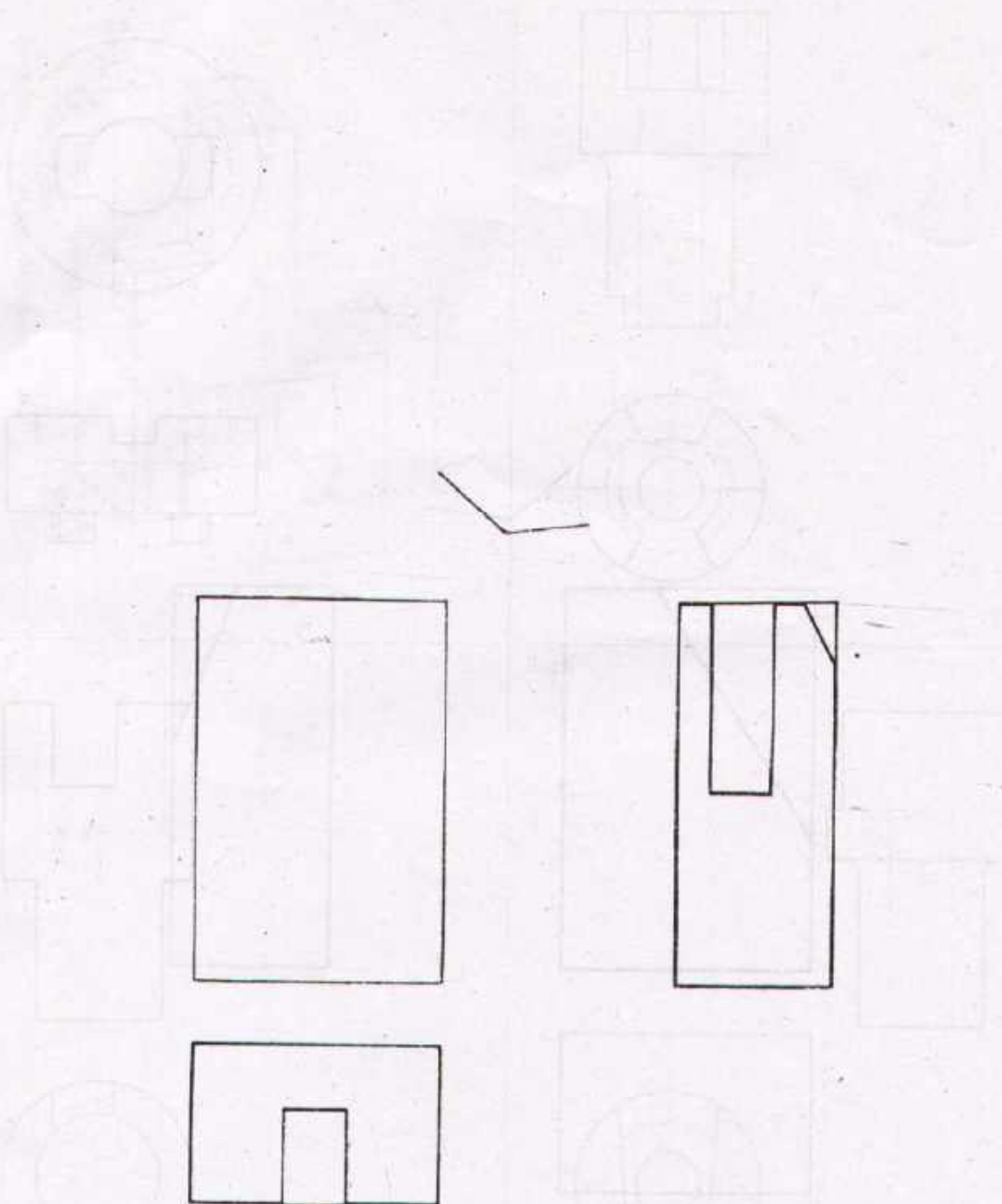
Complete the elevation and side views, draw the plan view.
 Give the dimensions.
 Draw the prismatic body in dimetric projection

| | | | |
|-------------|--------------------------|---------------|-----------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | DIMETRIC & PARALLEL PROJECTION |
| Drawn _____ | Name _____ Date _____ | Checked _____ | Name _____ Date _____ |




DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING
 PAK GERMAN TECHNICAL TRAINING PROGRAMME

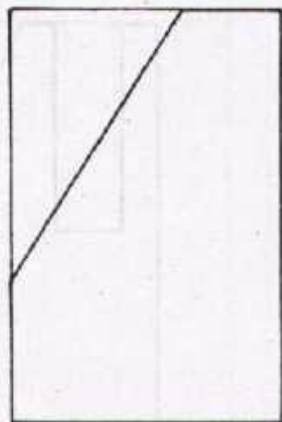
Trade 1
Practice
No. 38



Task:

Complete the side and plan views, draw the elevation view.
 Draw the prismatic body in dimetric projection with dimensions.

| | | | | |
|--|--------------------------|---------|--|--|
| Scale 1:1 | PRISMATIC BODIES | | DIMETRIC & PARALLEL PROJECTION | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 39 | |



Task:

Complete the elevation and side views, draw the plan view
 Enter the necessary dimensions.
 Draw the prismatic body in dimetric projection.

| | | | |
|-----------|--------------------------|---------|-----------------------------------|
| Scale 1:1 | PRISMATIC BODIES | | DIMETRIC & PARALLEL PROJECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |

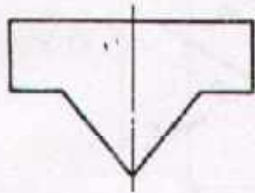


DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

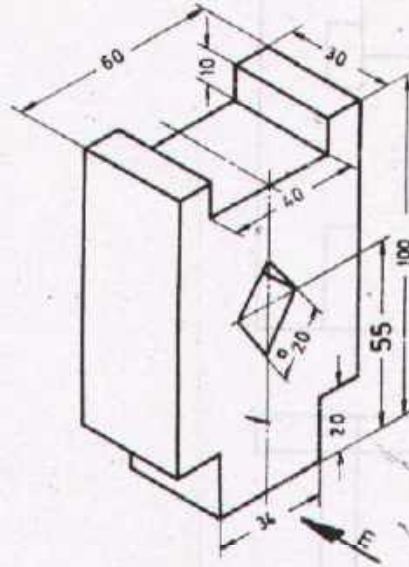
Trade **1**
 Practice
 No. 40

Fig.1



100 high

Fig.2



Task:

1. Draw the elevation side and plan views.
2. Enter the necessary dimensions.

Fig.3

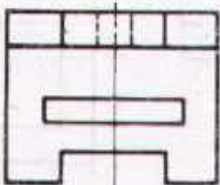
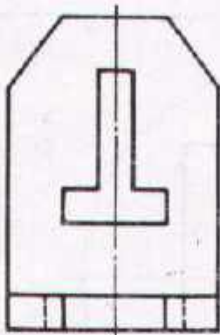
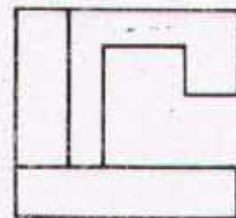
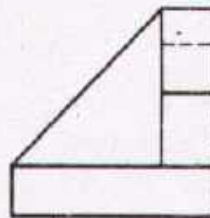


Fig.4



Task: (Figs.3,4)

Draw the missing views

Scale 1:2

PRISMATIC JOBS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No 41

Fig.1

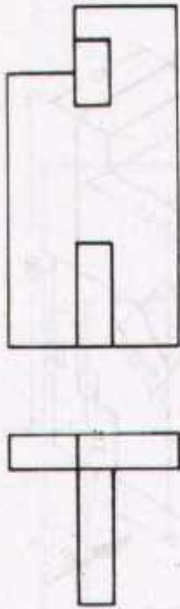
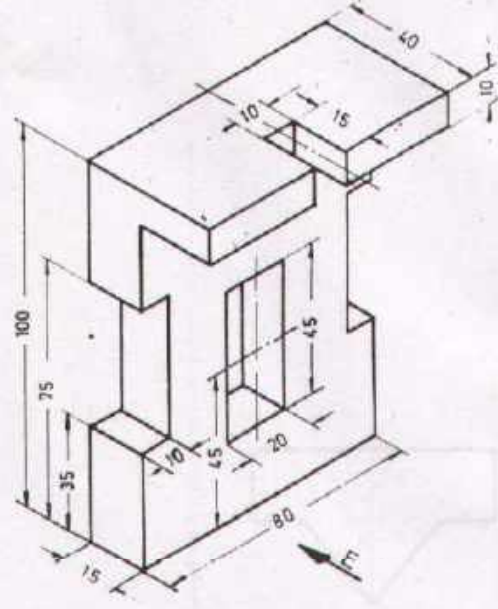


Fig.2



Task:

- 1 Draw the elevation side and plan views
- 2 Enter the dimensions.

Fig.3

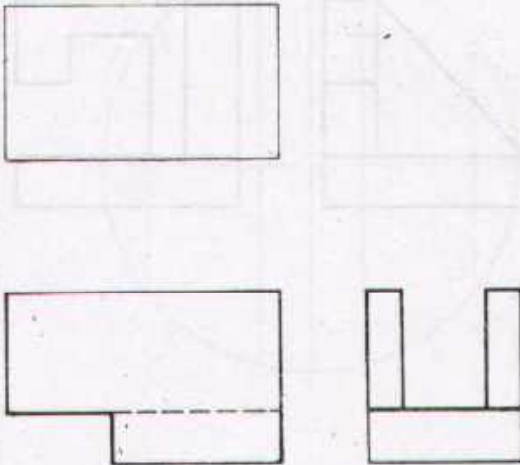
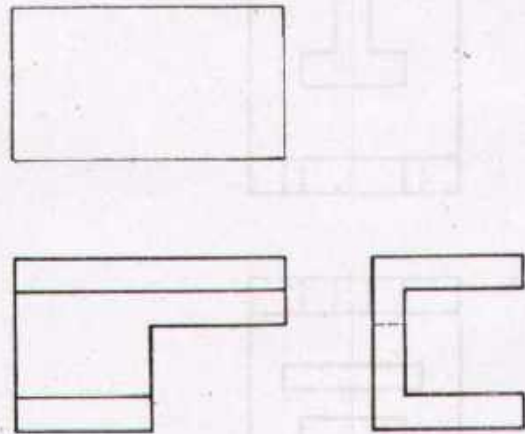


Fig.4



Task: (Figs. 1, 3, 4)

Draw the missing views .

Scale 1:2

PRISMATIC JOBS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice **1**
No. 42

Fig.1

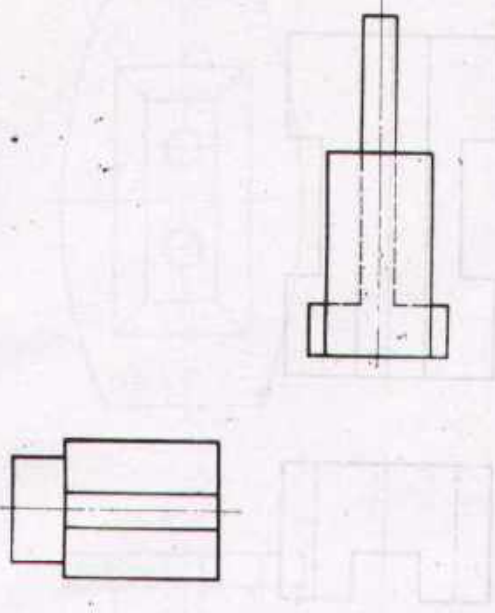


Fig.2

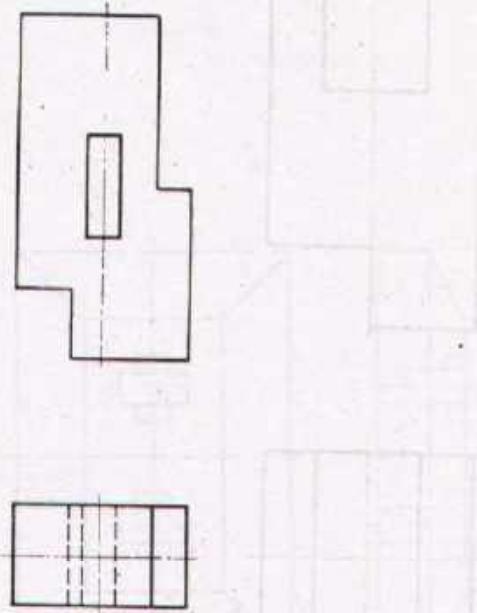


Fig.3

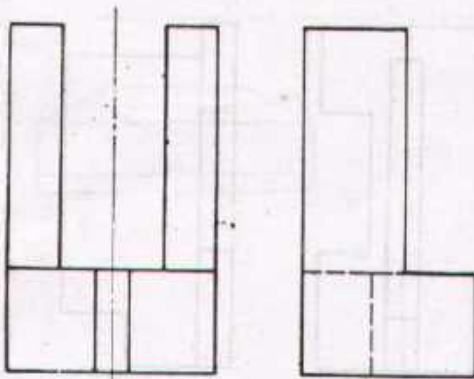
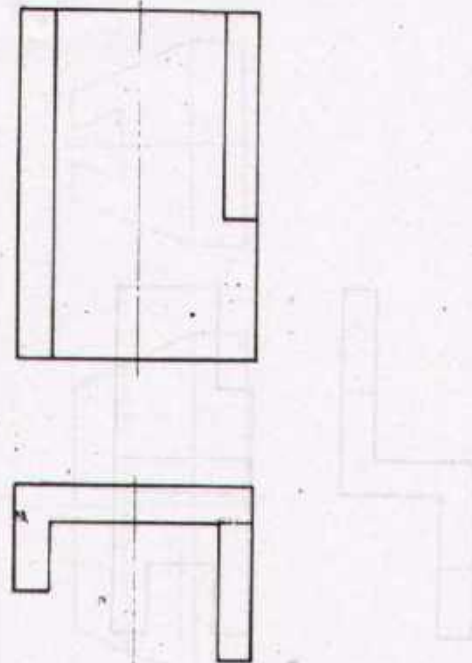


Fig.4



Task (Figs.1,2,3,4)
Draw the missing views

Scale 1:2

PRISMATIC JOBS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No 43

Fig.1

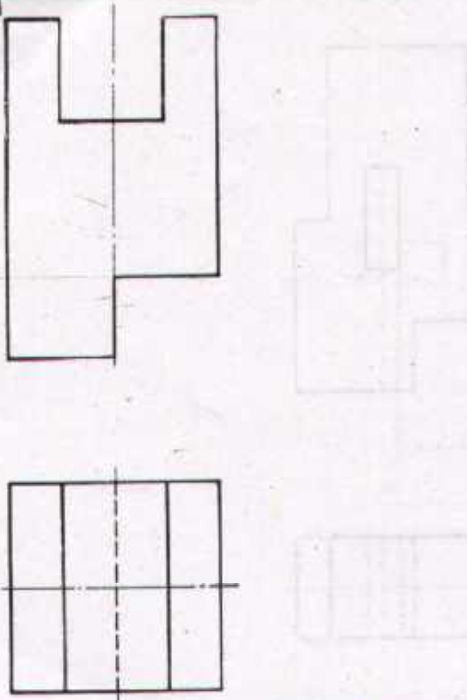


Fig.2

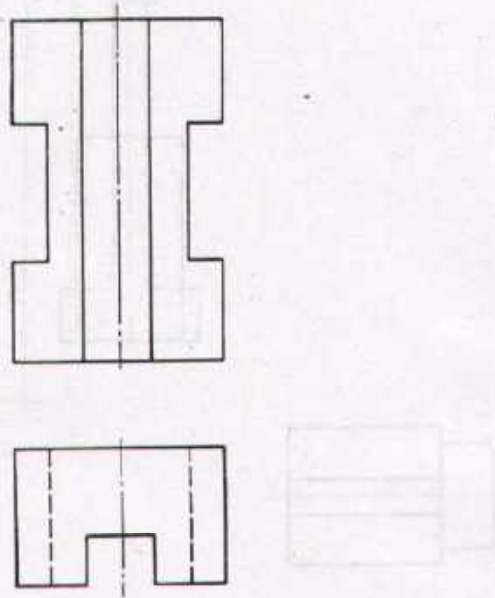


Fig.3

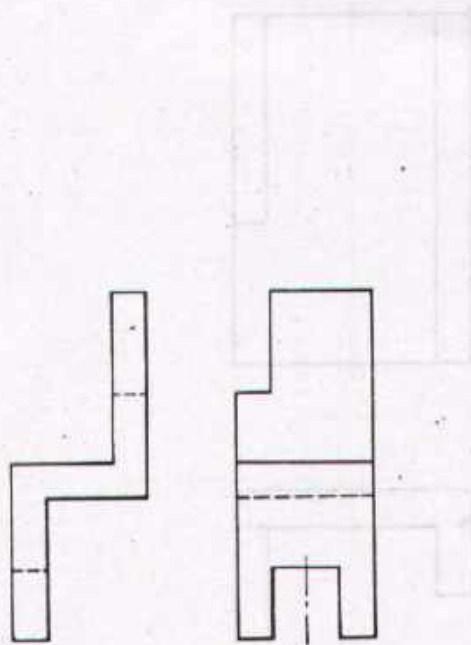
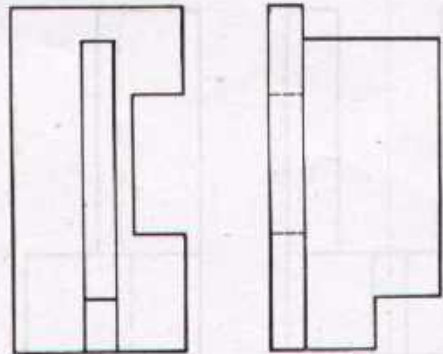


Fig.4



Task: (Figs. 1,2,3,4)
 Draw the missing views

Scale 1:2

PRISMATIC JOBS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
 No. 44

Fig. 1

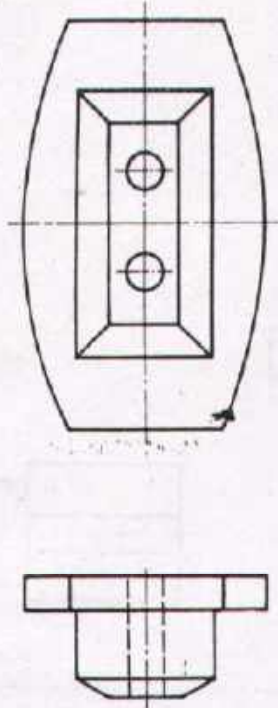


Fig. 2

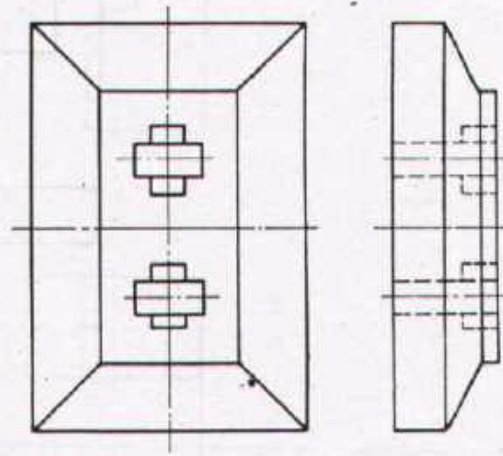


Fig. 3

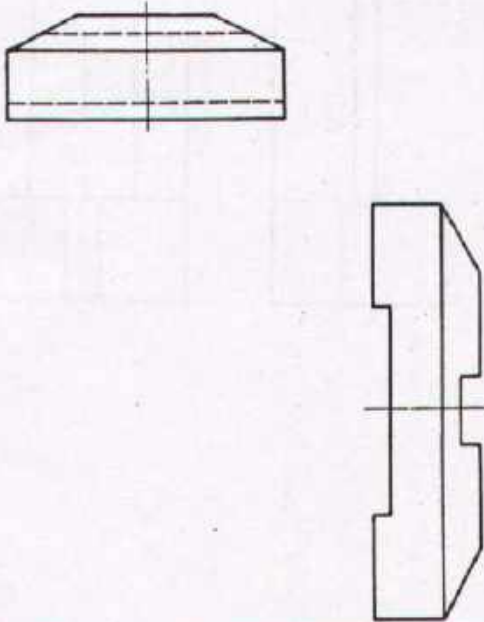
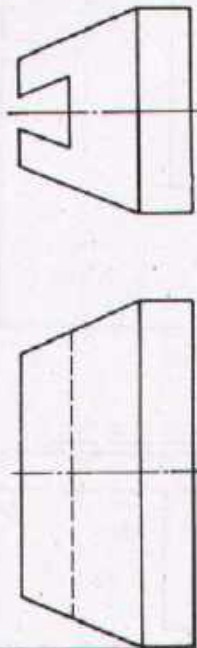


Fig. 4



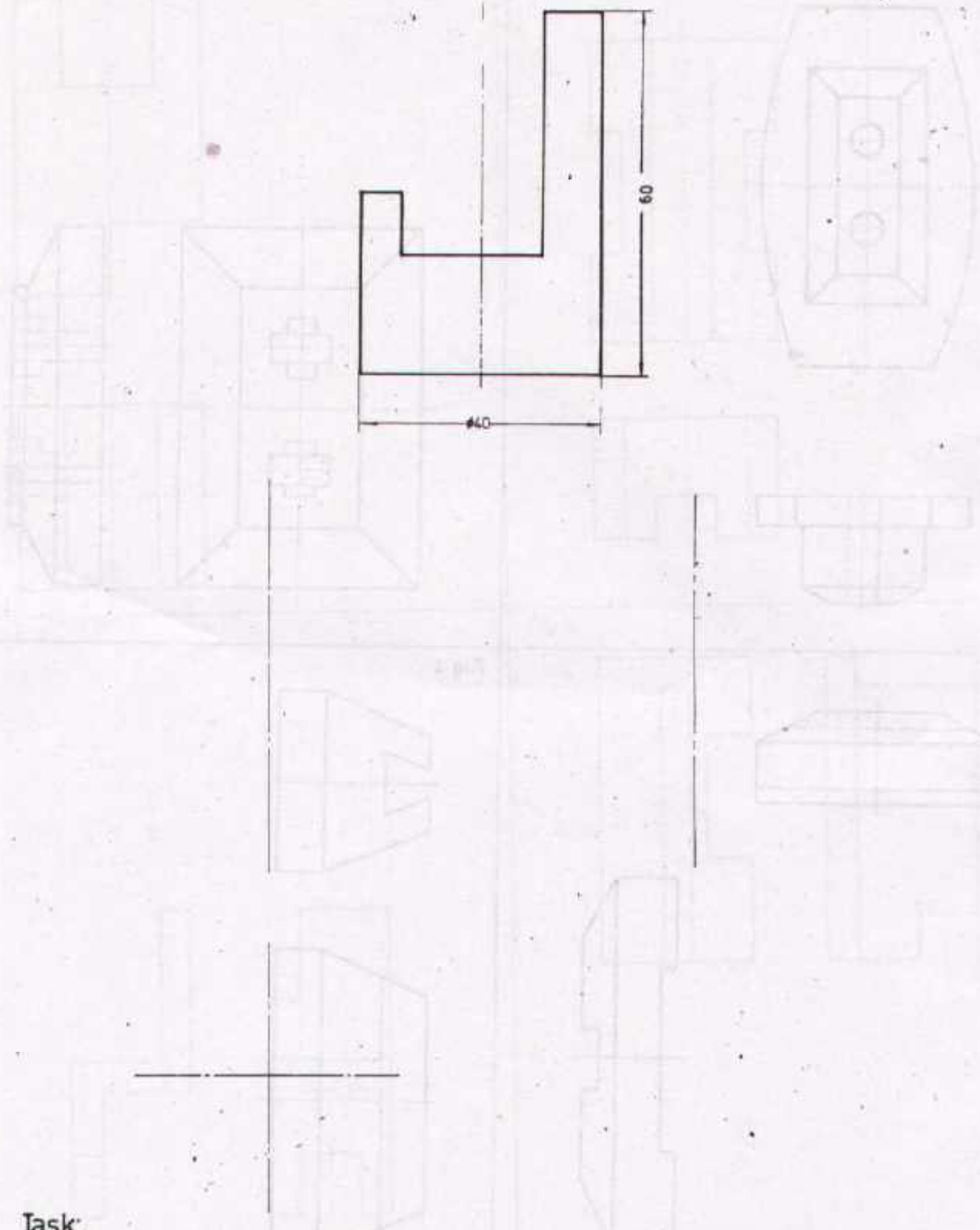
Task (Figs 1, 2, 3, 4)
Draw the missing views

| | | | |
|-----------|--------------------------|---------|--------------------------|
| Scale 1:2 | PRISMATIC JOBS | | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |




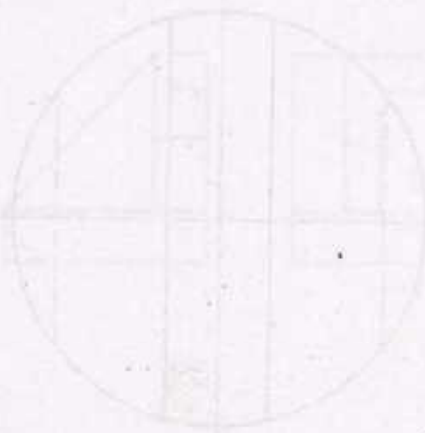
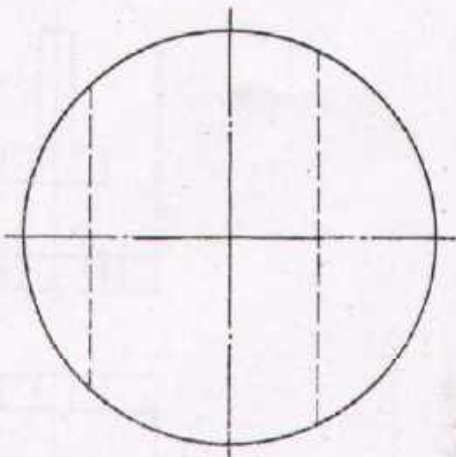
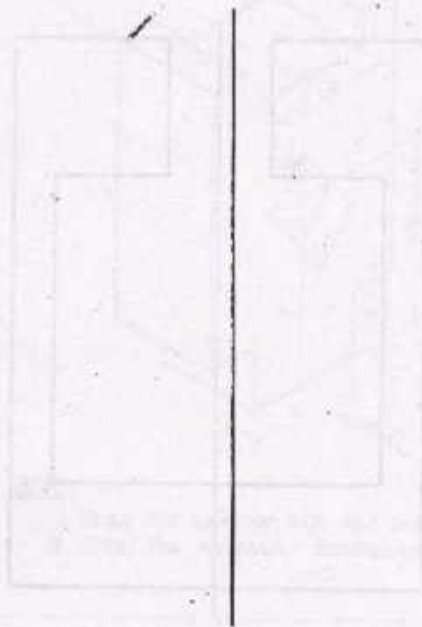
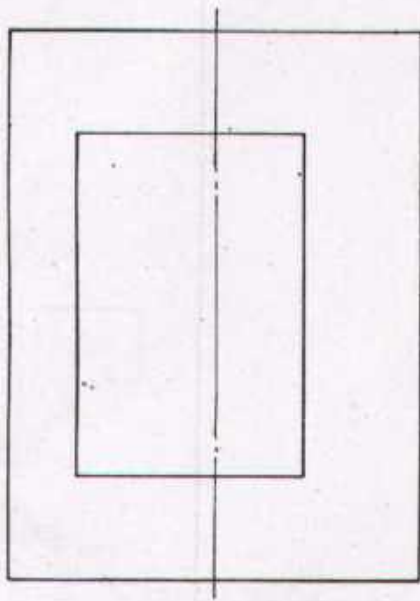
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING
PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 45



Task:
 Draw the cut cylindrical body in three views

| | | | |
|--|---------------------------|---------|----------------------------|
| Scale 1:1 | CYLINDRICAL BODIES | | RECTANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice No 46 |



Task

Draw the side view of the cylindrical body.

Enter the necessary dimensions.

Scale 1:1

CYLINDRICAL BODIES

RECTANGULAR CUTS

Drawn

Name

Date

Checked

Name

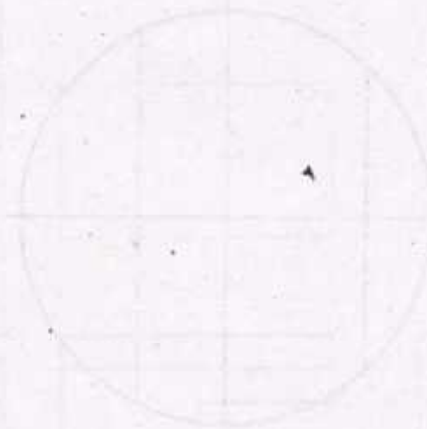
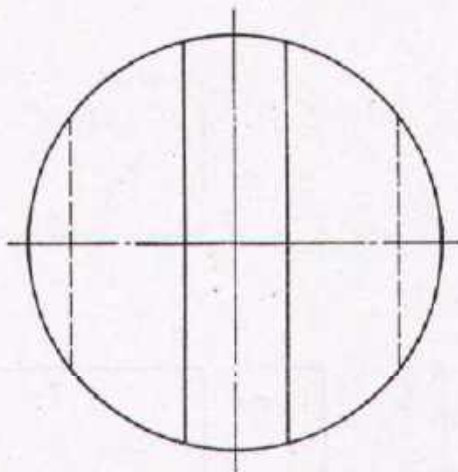
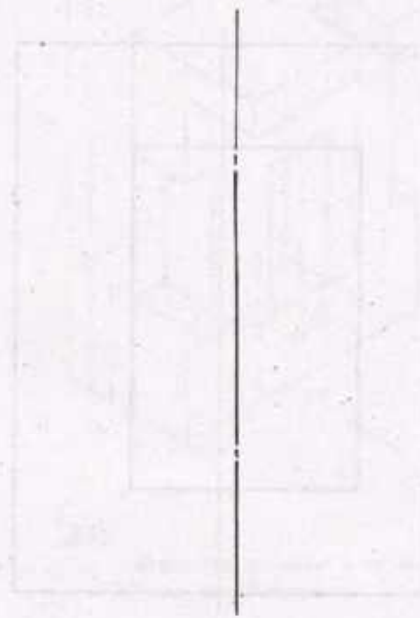
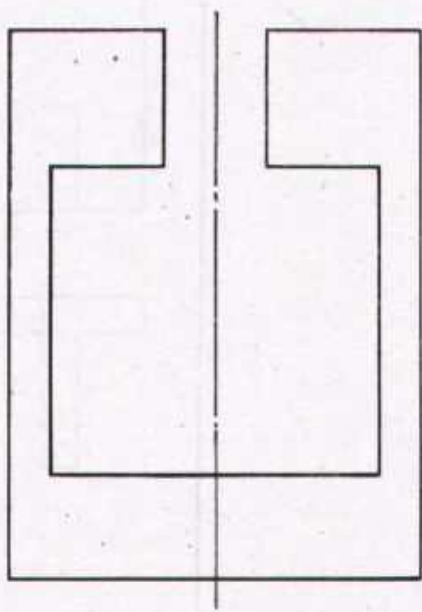
Date



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME


Trade **1**
Practice
No. 47

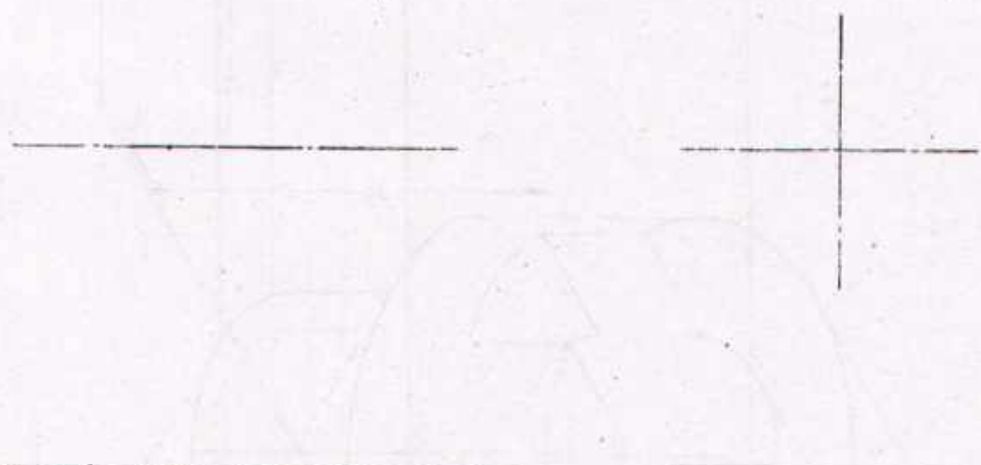
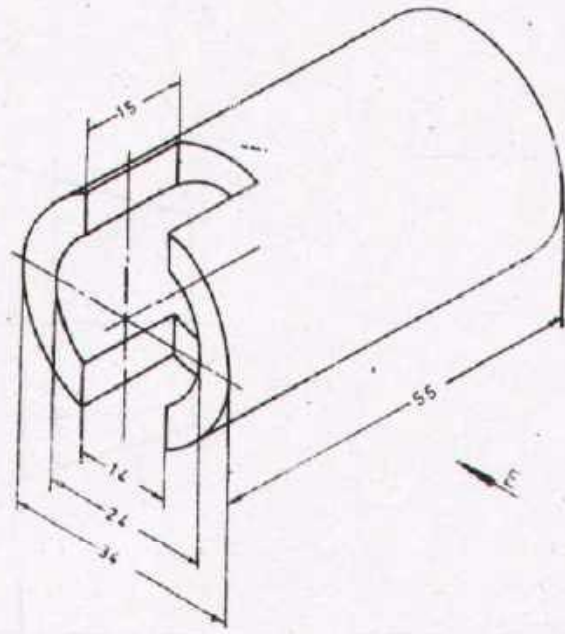


Task:

Draw the side view of the cylindrical body.


Enter the necessary dimensions.

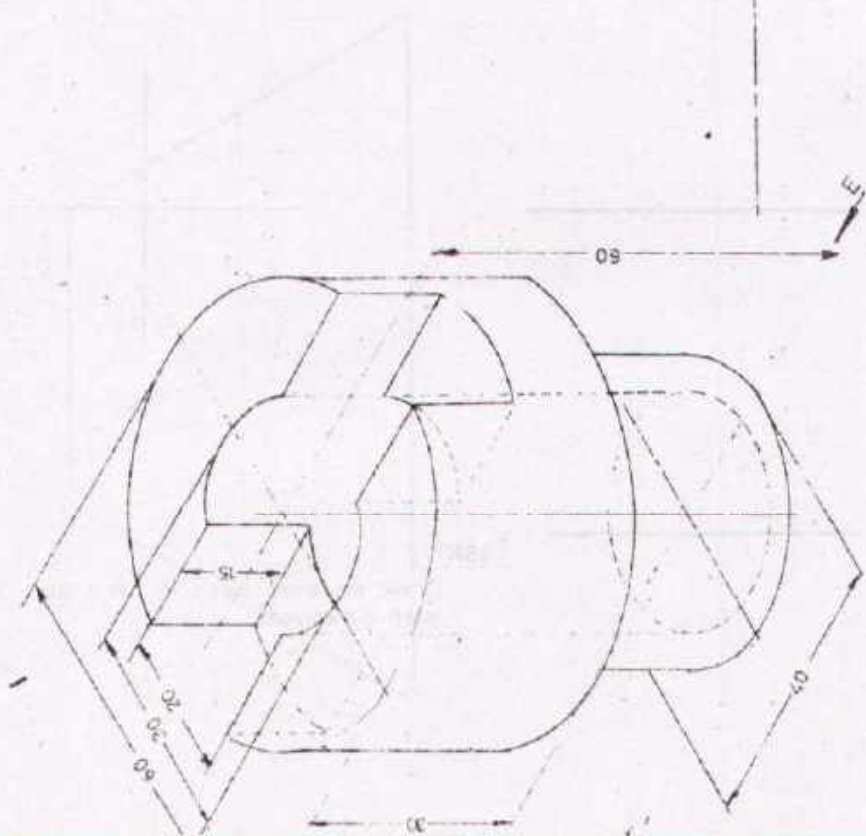
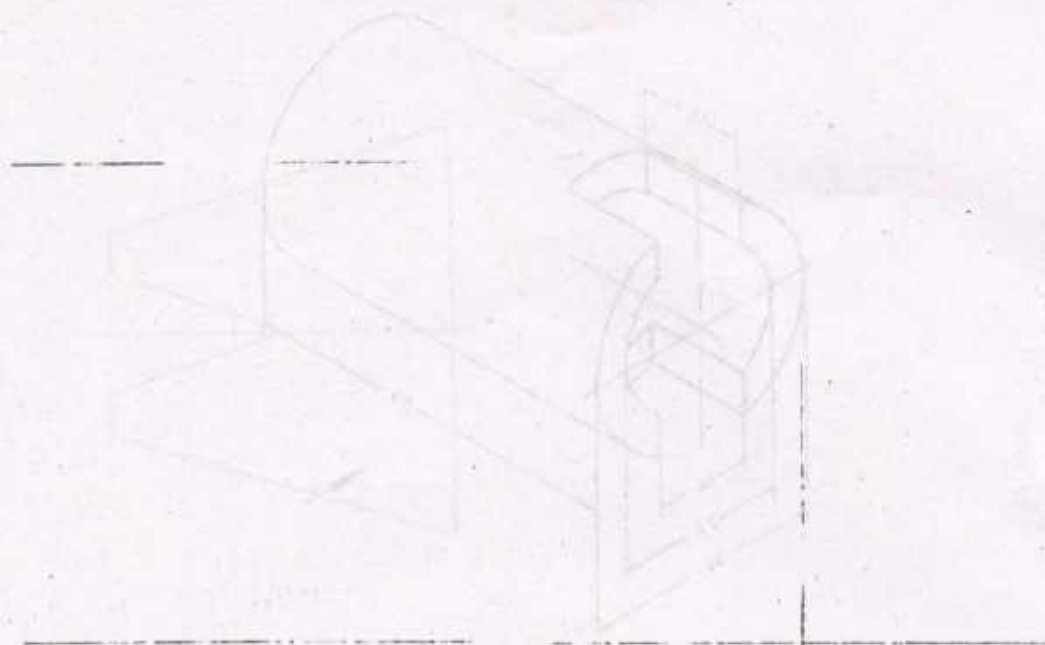
| | | | |
|--|---------------------------|---------------|--------------------------------------|
| Scale 1:1 | CYLINDRICAL BODIES | | RECTANGULAR CUTS |
| Drawn _____ | Name _____ Date _____ | Checked _____ | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade 1 Practice No. 48 |



Task

Draw the three views in full scale with dimensions

| | | | |
|---|---------------------------|---------|---------------------------------|
| Scale | CYLINDRICAL BODIES | | RECTANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING | | | Trad. # _____ Pract. # _____ |
| PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | |



Task: Draw the three with dimensions.

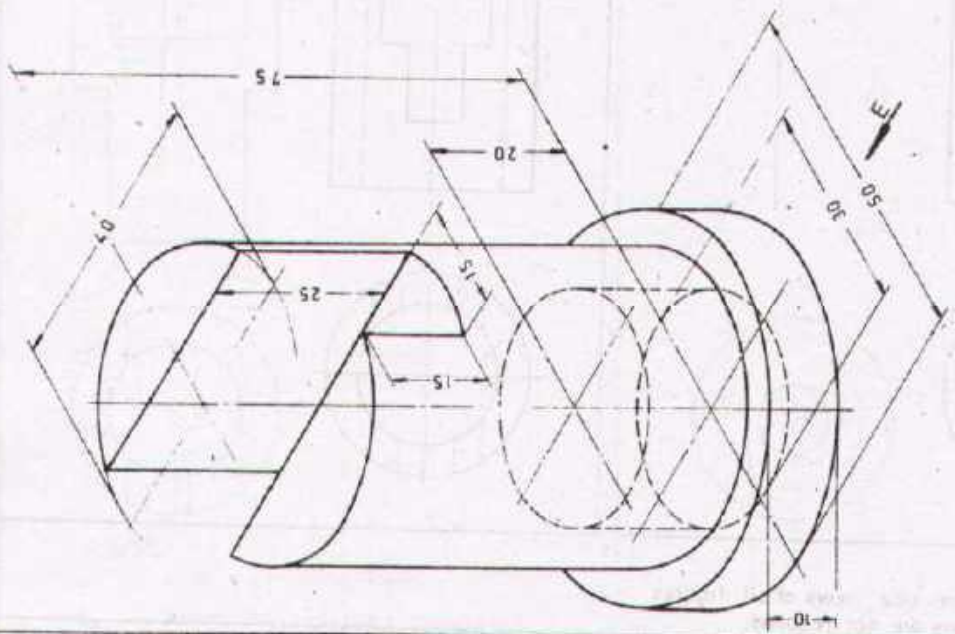
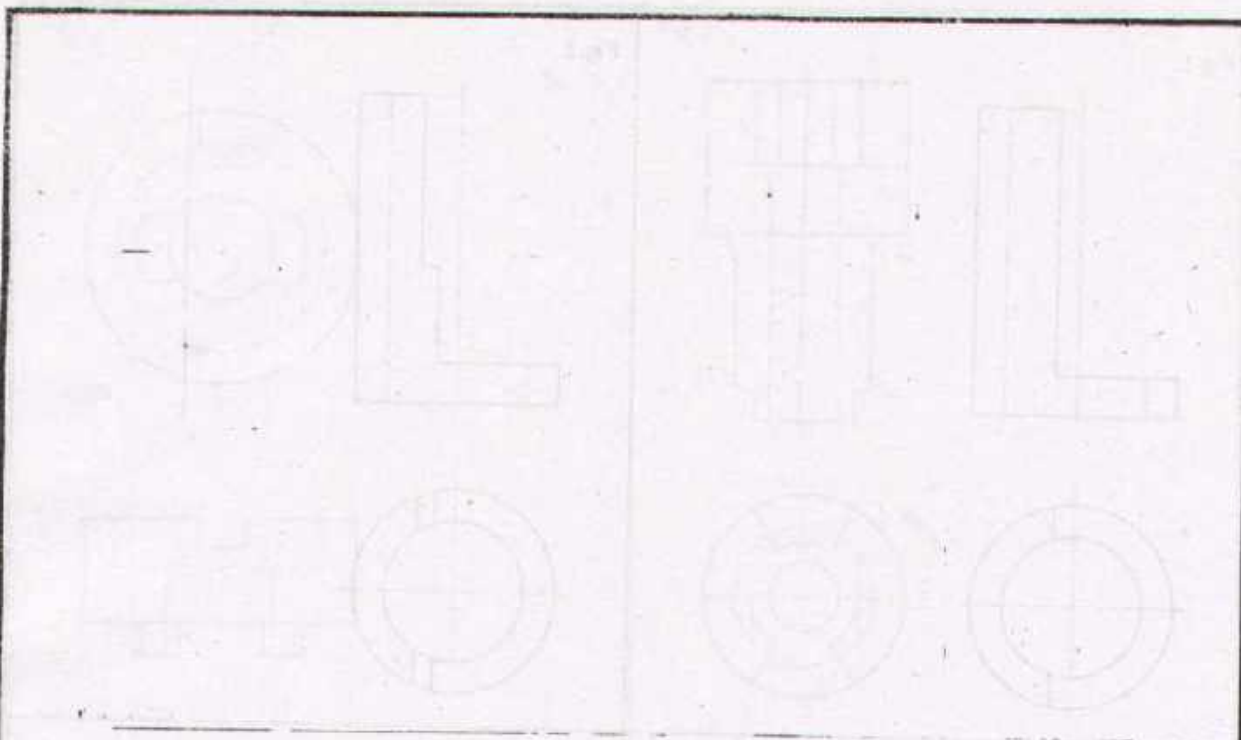
Scale 1:1 CYLINDRICAL BODIES RECTANGULAR CUTS

| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING
 PAR-GERMAN TECHNICAL TRAINING PROGRAMME

Trade practice **1**
 No 50



Task:
 Draw the three views.
 Elevation and side views in full section
 Scale 1:1

Scale _____ **CYLINDRICAL BODIES** RECTANGULAR CUTS

| | | | |
|--------------|------------|---------------|------------|
| Drawn: _____ | Name _____ | Checked _____ | Name _____ |
| Date _____ | Date _____ | Date _____ | Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
 Practice **1**
 No. 51

Fig.1

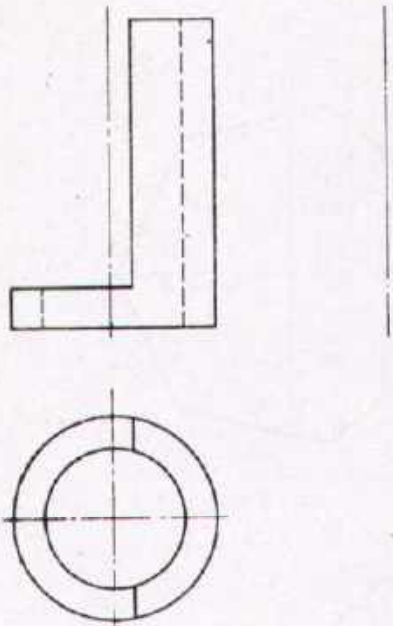


Fig.2

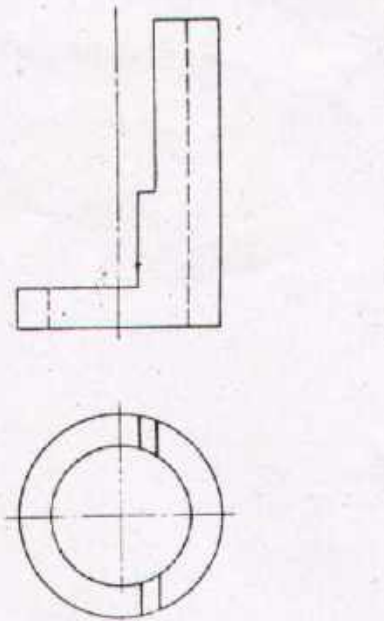


Fig.3

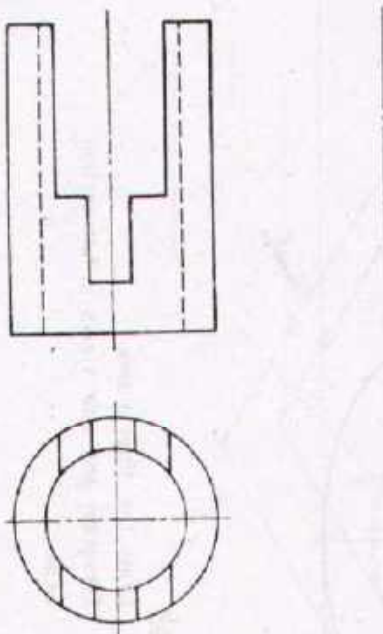
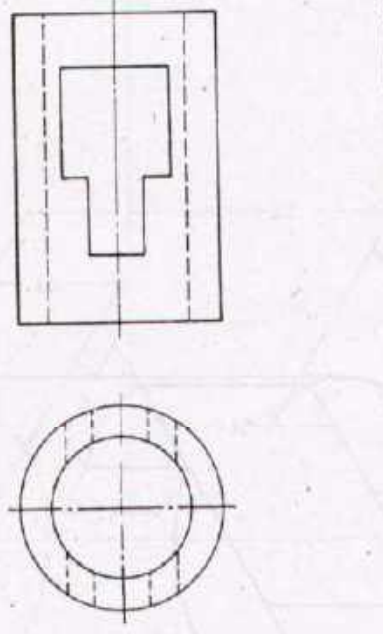


Fig.4



Task:

Draw the side views of all figures.
Dimensions are not required.

Scale 1:2

CYLINDRICAL JOBS

RECTANGULAR CUTS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 52

Fig 1

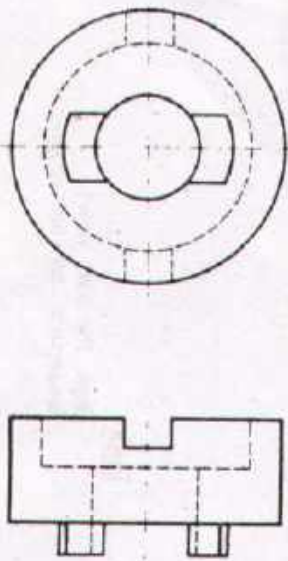


Fig 2

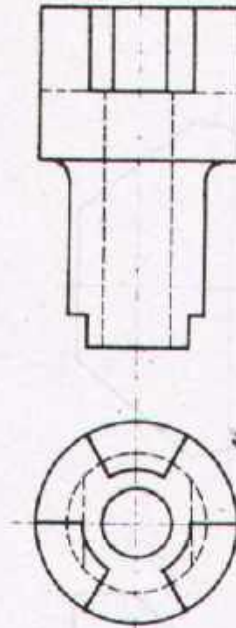


Fig 3

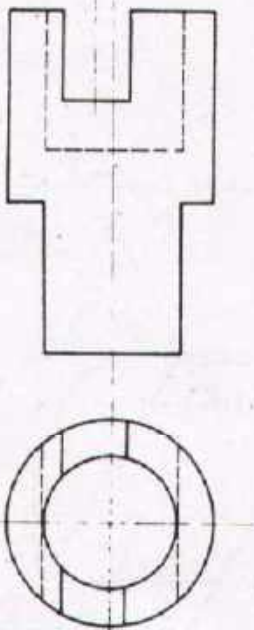
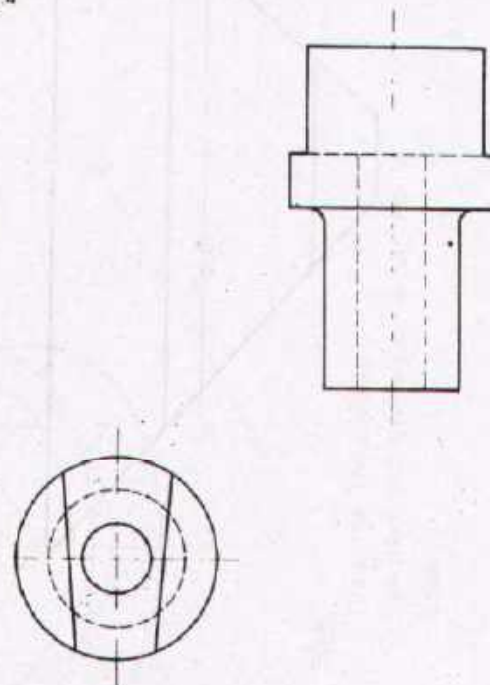


Fig 4



Task

Draw the missing views
Enter the necessary dimensions.

Scale 1:2

CYLINDRICAL JOBS

Drawn

Name _____
Date _____

Checked

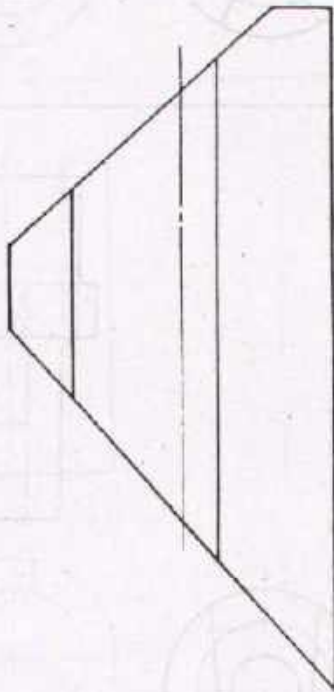
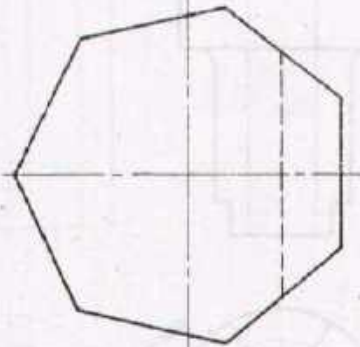
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 53



Task:

Draw the plan view;
dimensions are not required.

Scale 1:1

CUTS ON PRISM

ANGULAR CUTS

Drawn

Name _____
Date _____

Checked

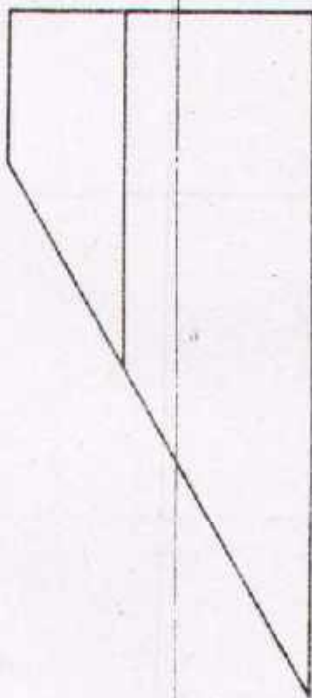
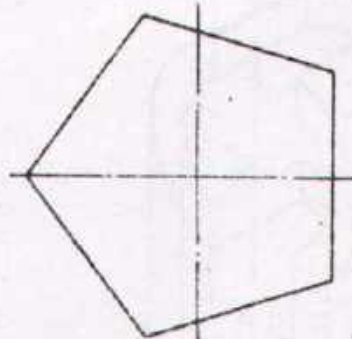
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade
Practice **1**
No. 54



Task: Draw the plan view:
dimensions are not required.

Scale 1:1 **CUTS ON PRISM** ANGULAR CUTS

| | | | |
|-------|------------|---------|------------|
| Drawn | Name _____ | Checked | Name _____ |
| | Date _____ | | Date _____ |

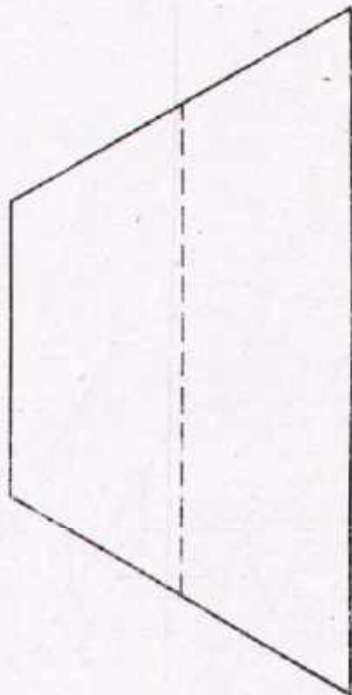
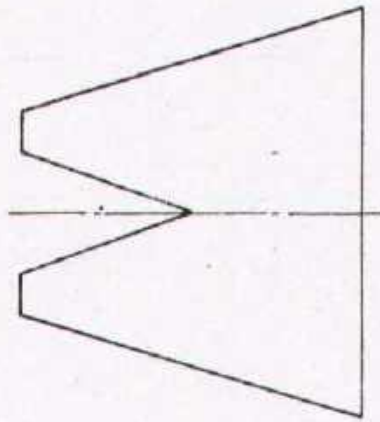


DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 55

Task 1: Draw the plan view of the object shown in the front view.



Task: Draw the plan view!
dimensions are not required

Scale 1:1 **CUTS ON PRISM** ANGULAR CUTS

Drawn Name _____ Date _____ Checked Name _____ Date _____



DEVELOPMENT CELL FOR SKILLED-LABOUR TRAINING

PAX-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice 1
No. 56

Fig. 2

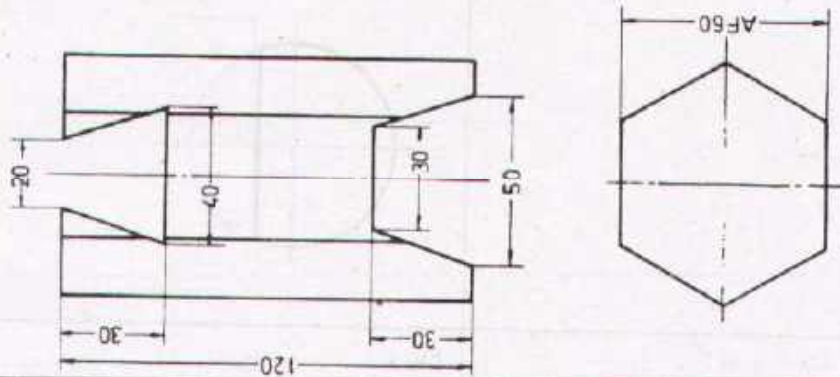
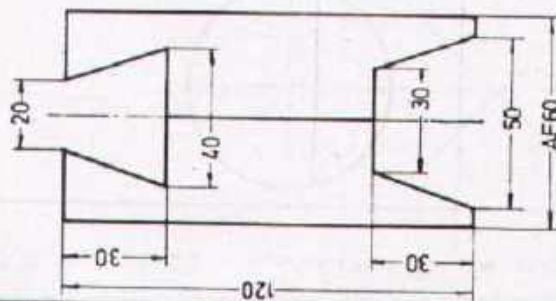


Fig. 1



Task

Draw the missing views of both figures.

Scale 1:2

PRISMATIC JOBS

RECTANGULAR CUTS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 57

Fig 1

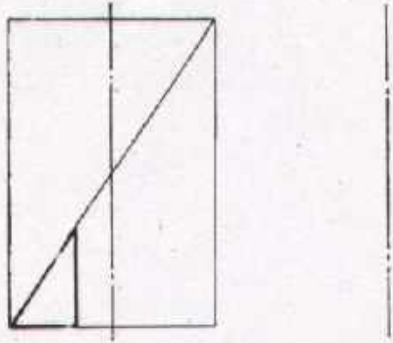


Fig 2

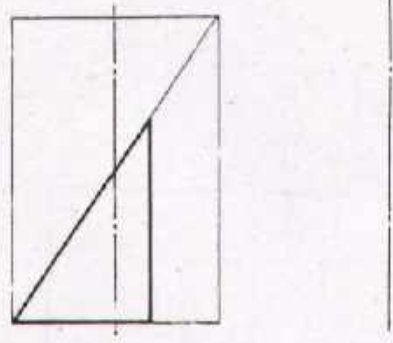


Fig 3

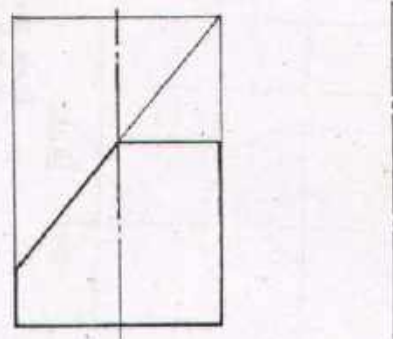
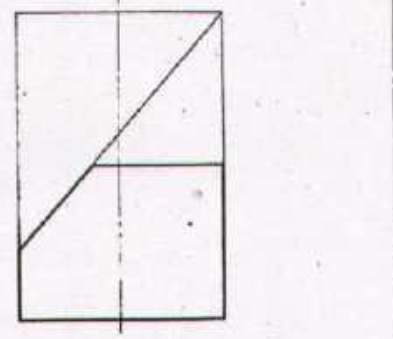


Fig 4



Task:

Draw the side views of all figures with construction work.
Dimensions are not required

Scale 1:2

CYLINDRICAL JOBS

ANGULAR CUTS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

FOR SKILLED LABOUR TRAINING PROGRAMME

Trade Practice **1**
No. 58

Fig 1

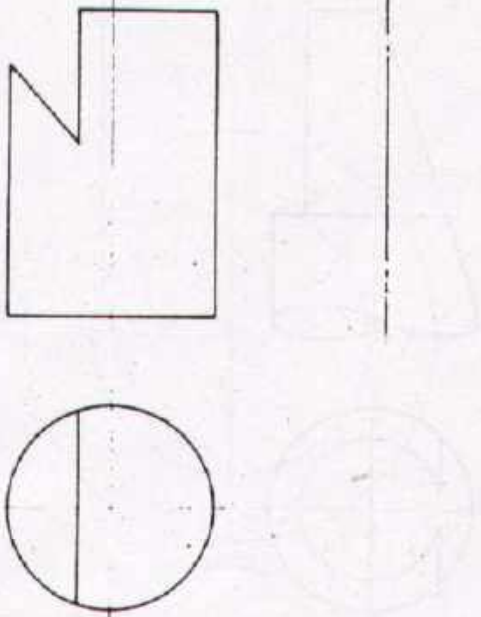


Fig 2

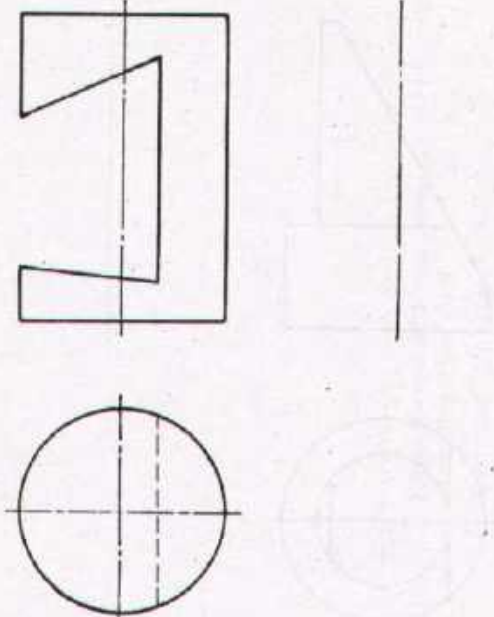


Fig 3

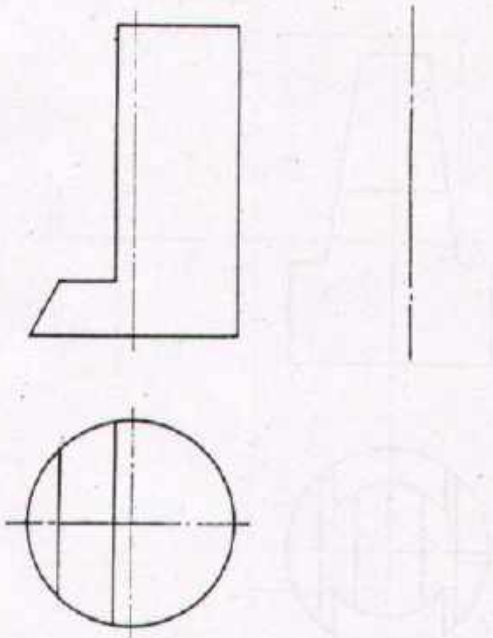
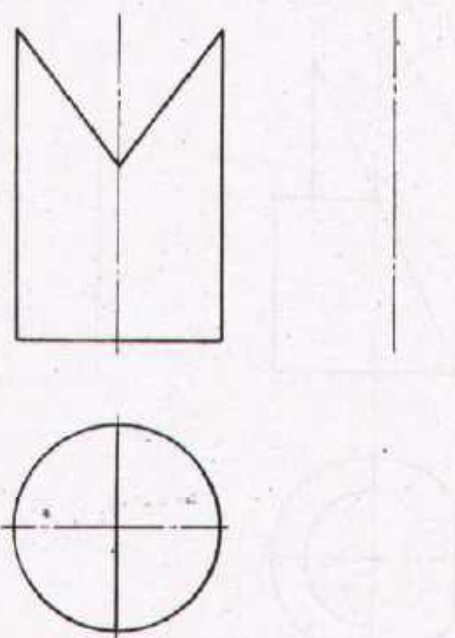


Fig 4



Task

Draw the side views of all figures with construction work.
Dimensions are not required.

Scale 1:2

CYLINDRICAL JOBS

ANGULAR CUTS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No 59

Fig 1

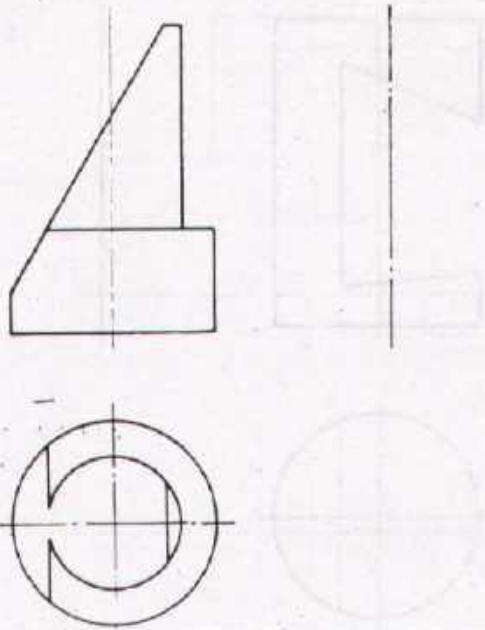


Fig 2

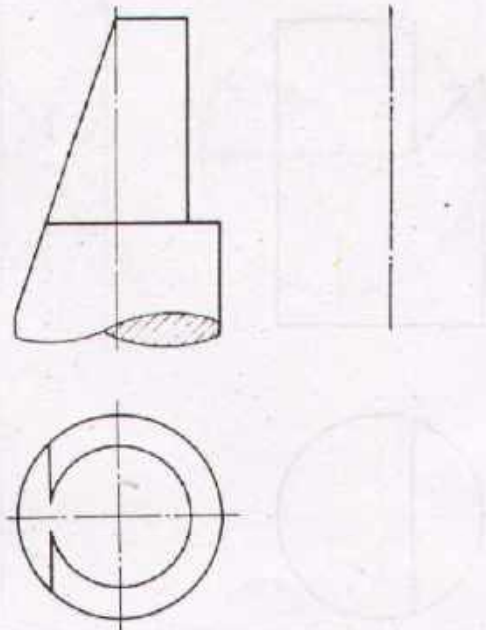


Fig 3

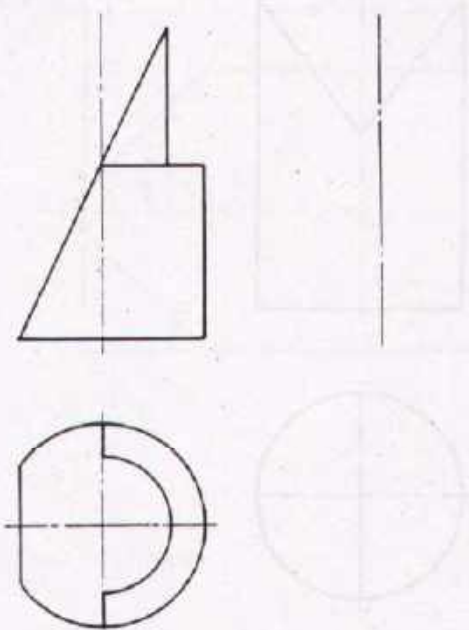
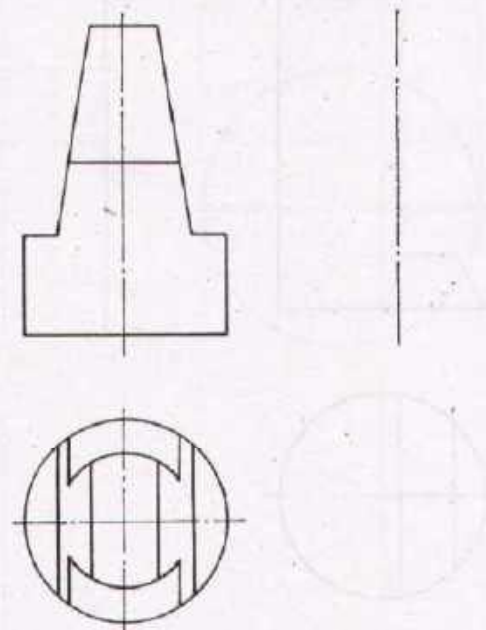


Fig 4



Task:

Draw the side views of all figures with construction work.
Dimensions are not required.

Scale 1:2 **CYLINDRICAL JOBS** ANGULAR CUTS

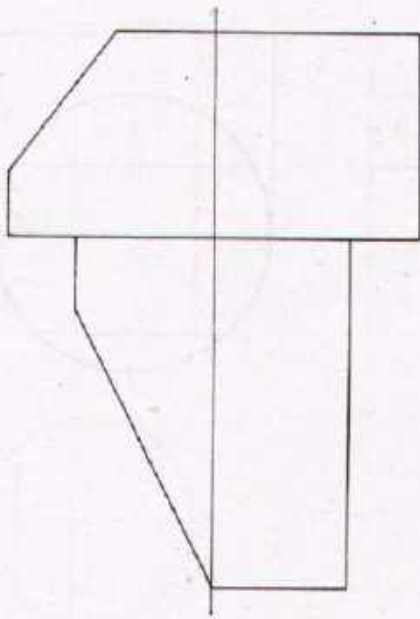
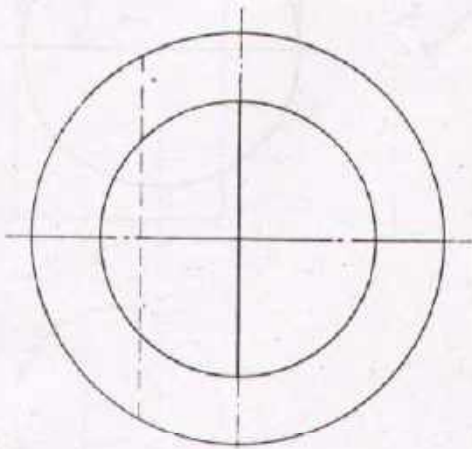
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No 60



Task:

Elevation view and side view are given ; draw the plan view

Enter the necessary dimensions.

Scale 1:1 **CYLINDRICAL JOBS** ANGULAR CUTS

| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No 61

Fig 1

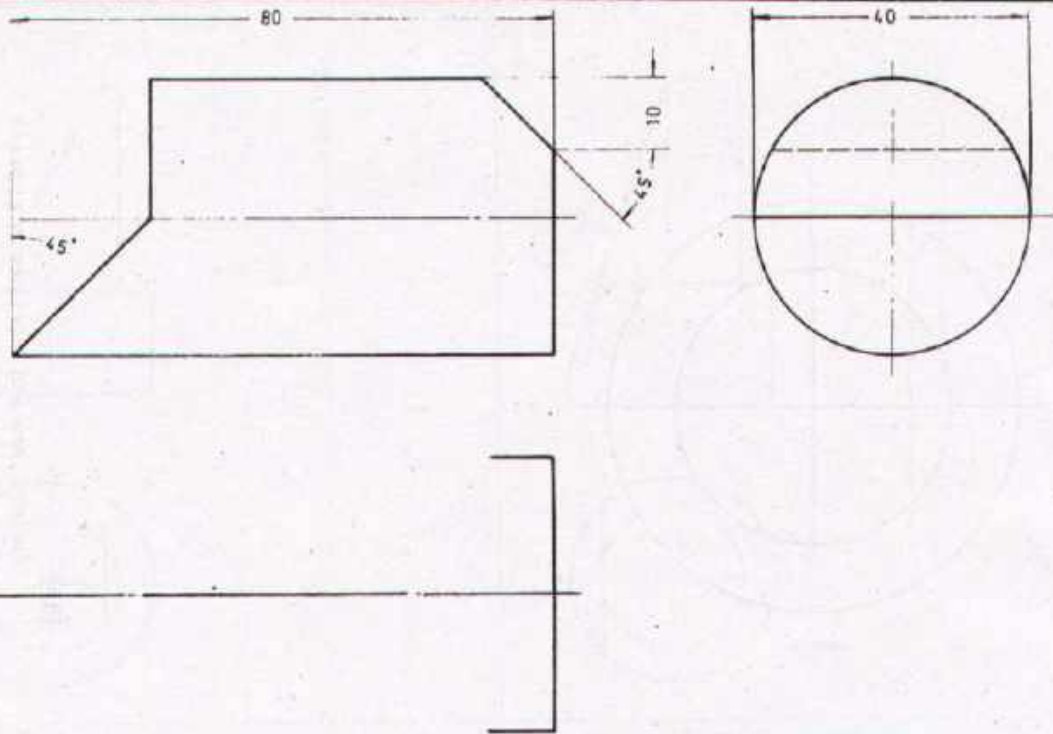
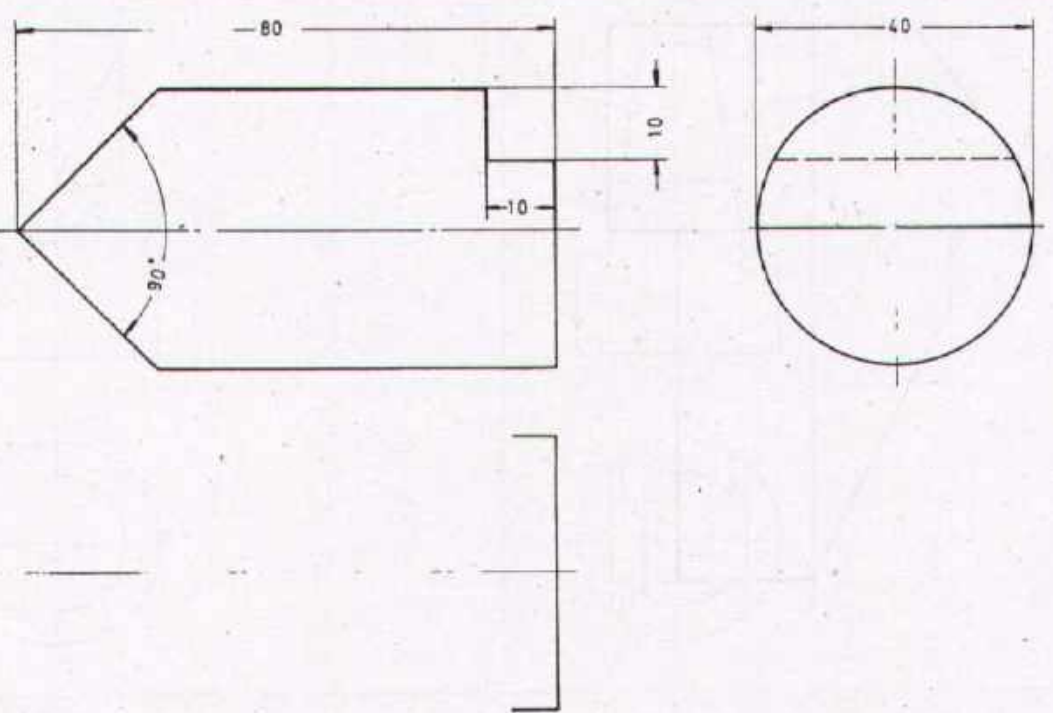


Fig 2



Task:
Draw the missing views

Scale 1:1 **CYLINDRICAL JOBS** ANGULAR CUTS

| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING
PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 62

Fig.1

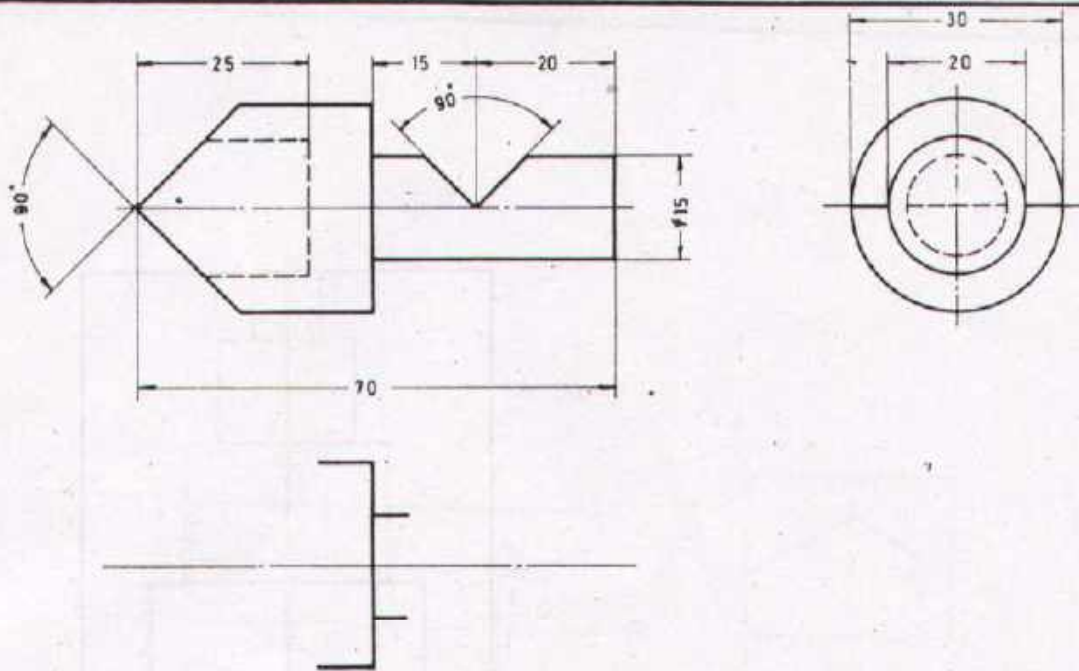
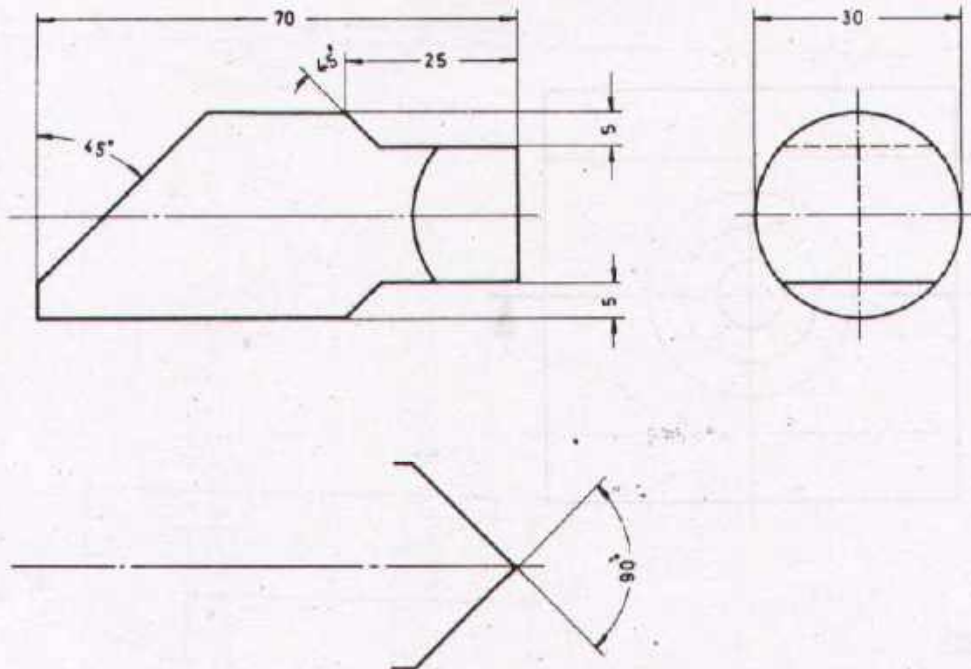



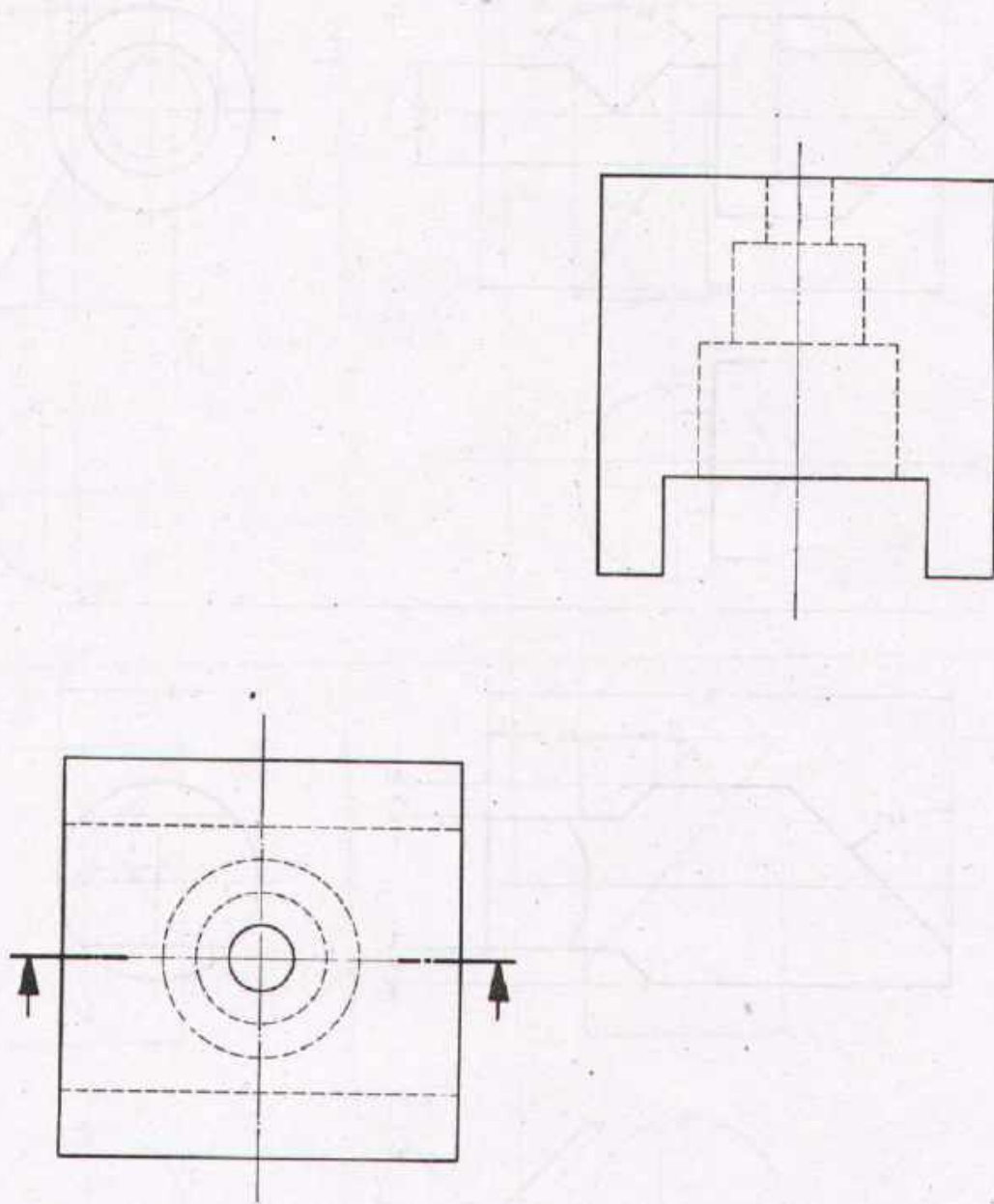
Fig.2




Task:

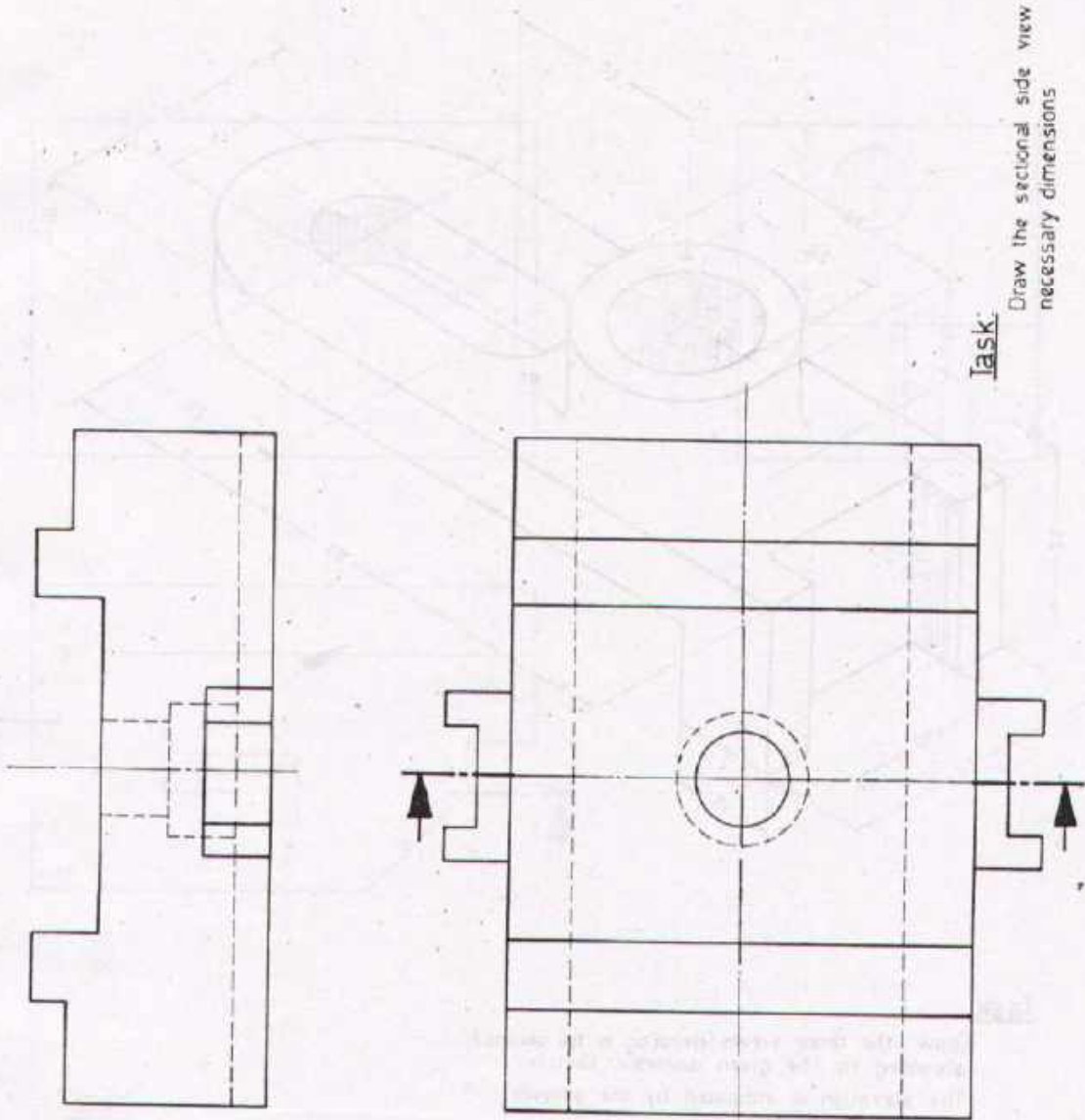
Draw the missing views.

| | | | | |
|--|--------------------------|---------|-----------------------------------|--|
| Scale | CYLINDRICAL JOBS | | ANGULAR CUTS | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 63 | |



Task:
 Draw the elevation view in section
 and enter the necessary dimensions.

| | | | |
|--|--------------------------|---------|-----------------------------------|
| Scale 1:1 | SECTIONS | | FULL SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 64 |



Task: Draw the sectional side view and enter all necessary dimensions

Scale 1:1 SECTIONS FULL SECTION

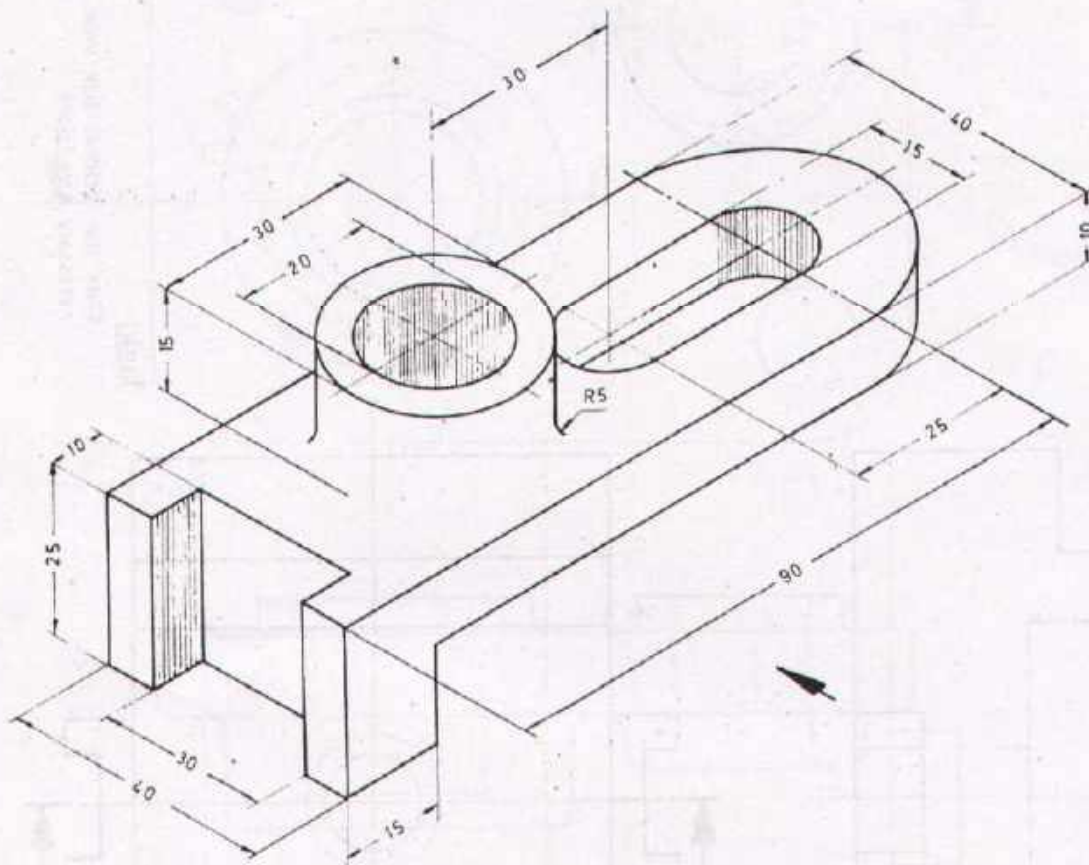
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING


PAK GERMAN TECHNICAL TRAINING PROGRAMME

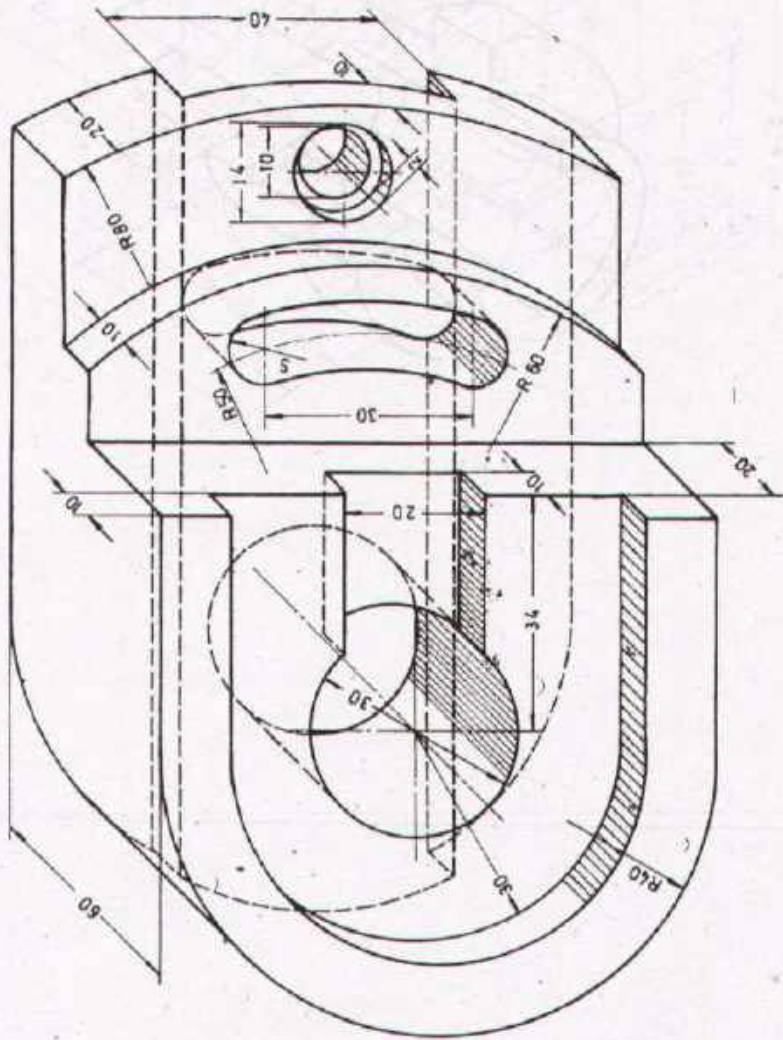
Trade Practice **1**
No 65



Task:

Draw the three views (elevation in full section) according to the given isometric sketch. The elevation is indicated by the arrow's direction. Scale 1:1. Enter all necessary dimensions.

| | | | |
|--|--------------------------|---------|--|
| Scale 1:1 | SECTIONS | | FULL SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 66 |

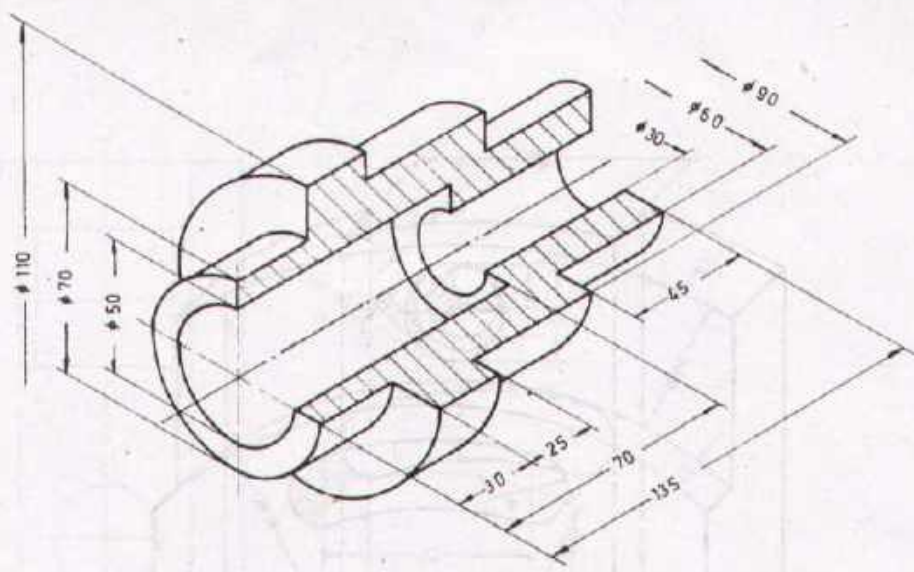


Task

Draw the elevation as indicated by the arrow's direction, plan and side views in third angle projection. (plan view in full section)
 Enter the necessary dimensions.
 Scale 1:1

Scale 1:1 **SECTIONS** FULL SECTION

| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



Task:
 Draw the half sectional elevation view of the above given workpiece in full scale. Enter the necessary dimensions.

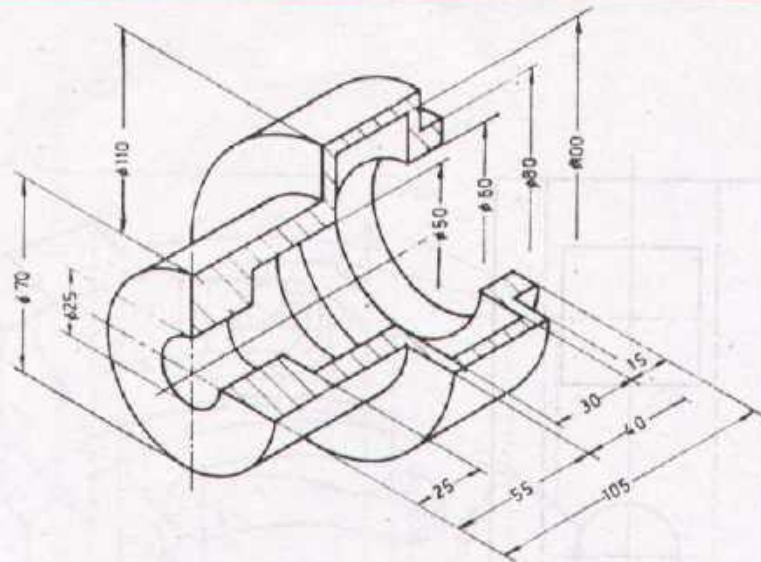
| | | | |
|-----------|-----------------|--|--------------|
| Scale 1:1 | SECTIONS | | HALF SECTION |
|-----------|-----------------|--|--------------|

| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING
 PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
 Practice
 No. 68



Task

Draw the half sectional elevation view of the above given workpiece in full scale. Enter the necessary dimensions.

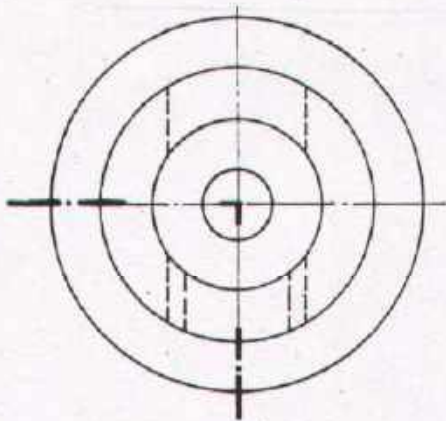
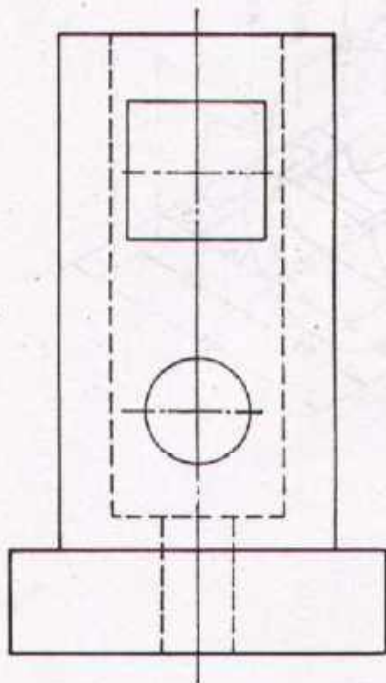
| | | | |
|-----------|--------------------------|---------|--------------------------|
| Scale 1:1 | SECTIONS | | HALF SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING


PAK-GERMAN TECHNICAL TRAINING PROGRAMME

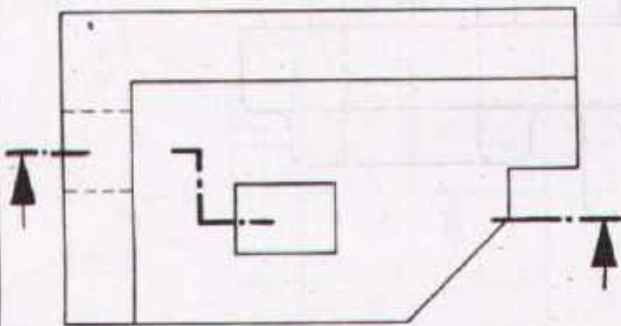
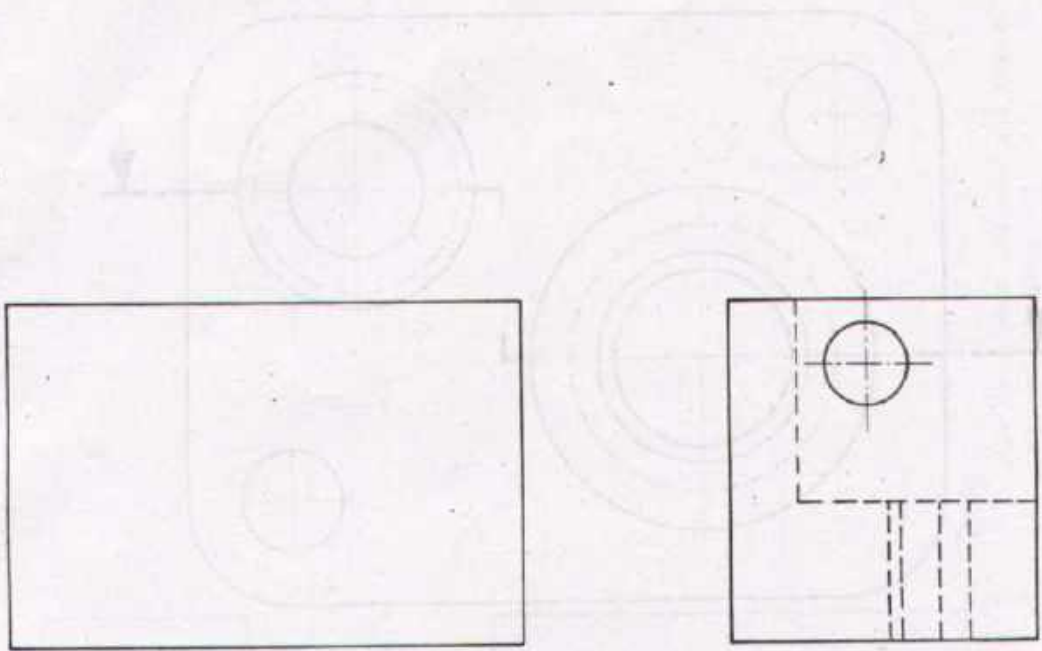
Trade Practice No. 69



Task:


Draw the sectional side view.
Enter the necessary dimensions
according to standards

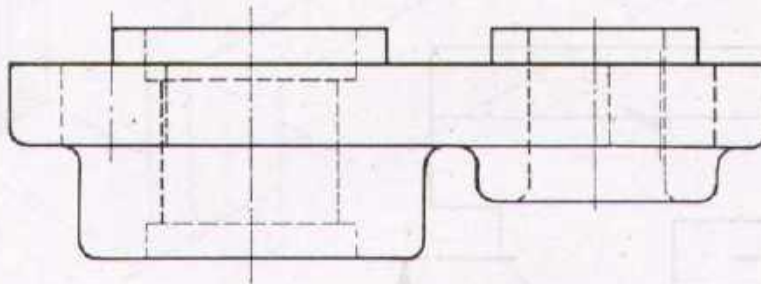
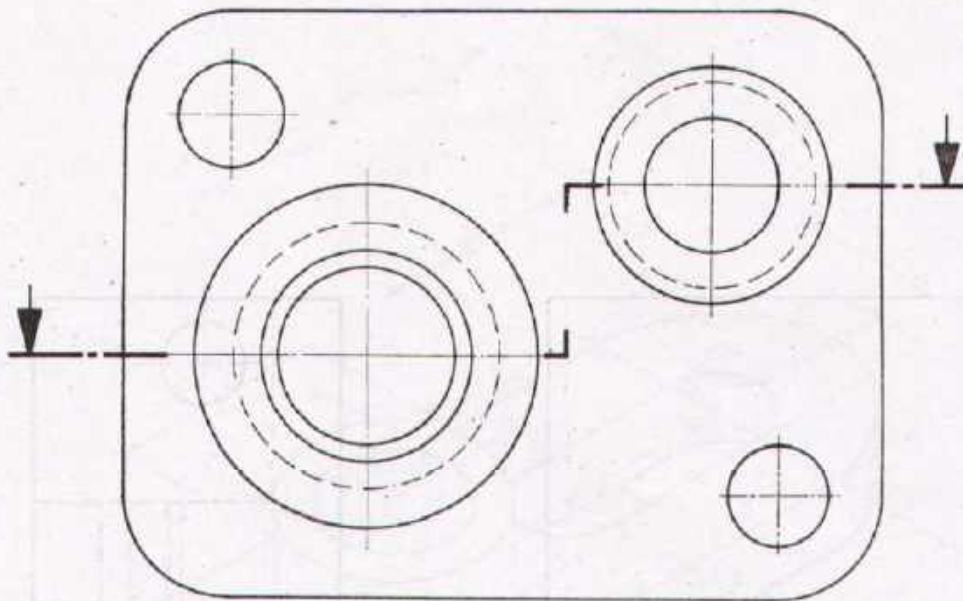
| | | | |
|---|--------------------------|---------|--------------------------|
| Scale 1:2 | SECTIONS | | HALF SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING <small>FOR GERMAN TECHNICAL TRAINING PROGRAMME</small> | | | Trade Practice No. 70 |



Task:

Complete the sectional elevation view and enter the necessary dimensions.

| | | | |
|--|--------------------------|---------|-----------------------------------|
| Scale 1:1 | SECTIONS | | OFF-SET SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 21 |



Task:

Draw the sectional plan view and enter the necessary dimensions.

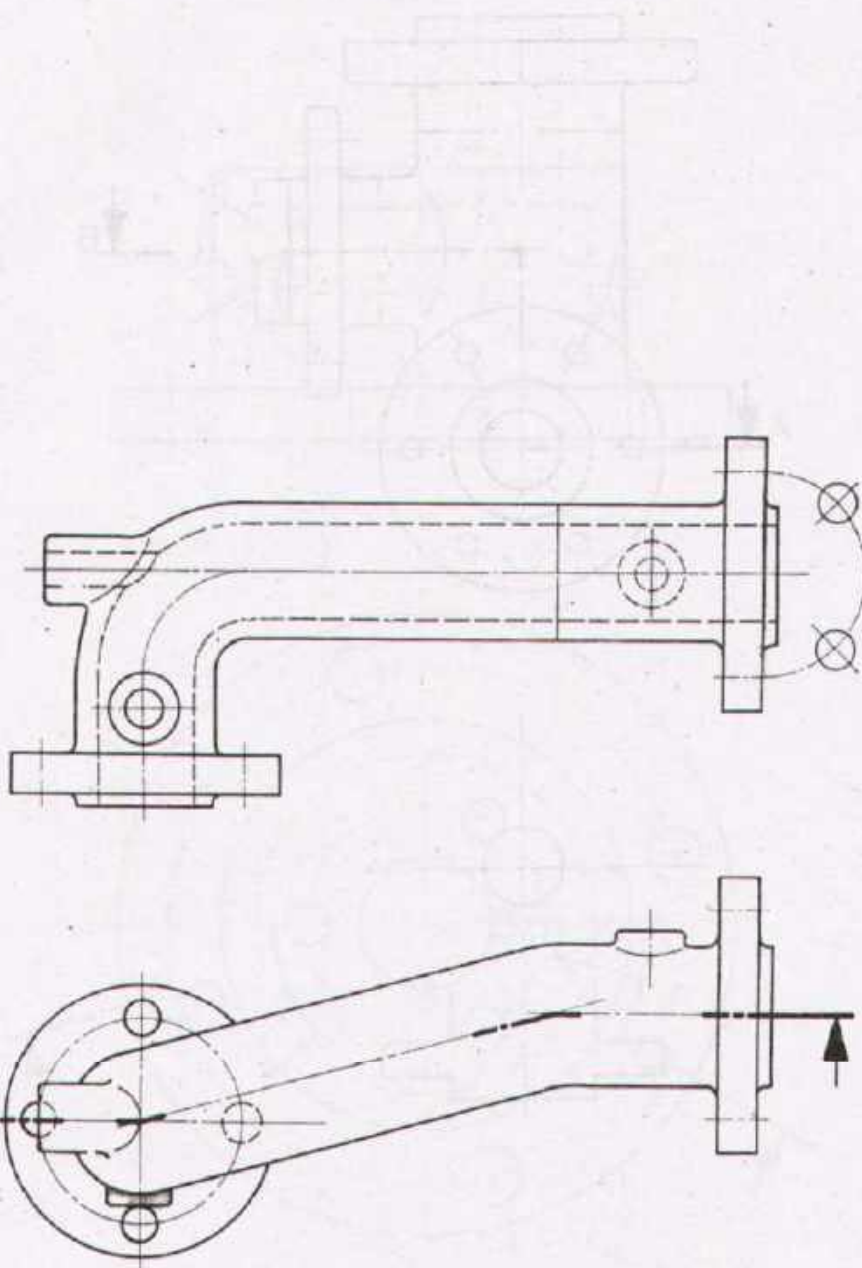
| | | | |
|-----------|--------------------------|---------|--------------------------|
| Scale 1:1 | SECTIONS | | OFF-SET SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING


PAX GERMAN TECHNICAL TRAINING PROGRAMME

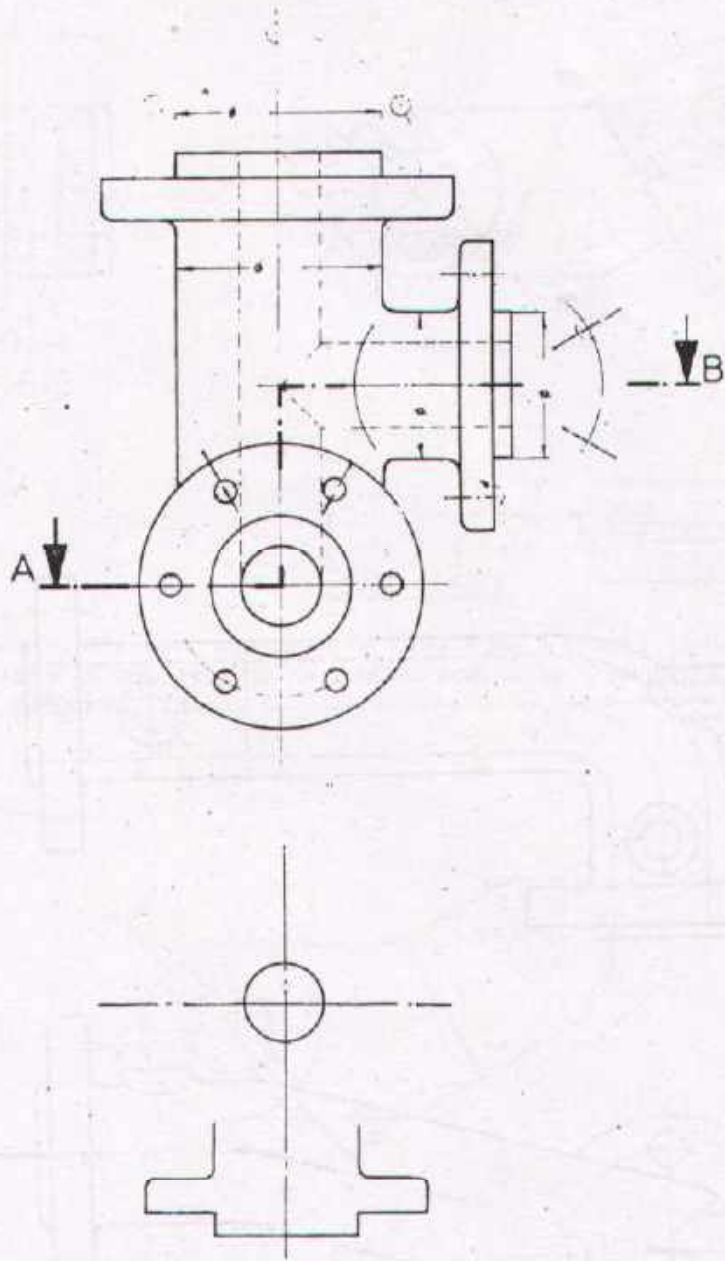
Trade Practice No 72 **1**



Task:

Draw the sectional elevation view and enter the necessary dimensions.

| | | | |
|--|--------------------------|---------|-----------------------------------|
| Scale 1:1 | SECTIONS | | OFF-SET SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 73 |



Task:

Draw the section A-B
and enter the necessary dimensions.

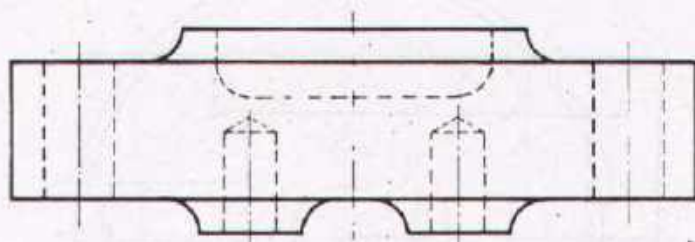
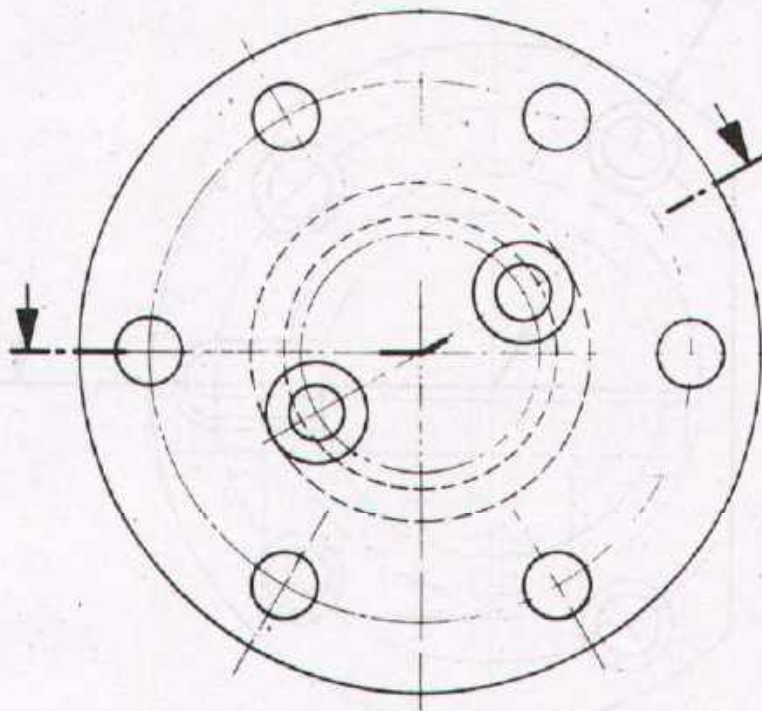
| | | | |
|-----------|--------------------------|---------|--------------------------|
| Scale 1:1 | SECTIONS | | OFF-SET SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 74



Task:

Draw the plan view in section and enter the necessary dimensions.

| | | | |
|-----------|-----------------|--|------------------|
| Scale 1:1 | SECTIONS | | REVOLVED SECTION |
|-----------|-----------------|--|------------------|

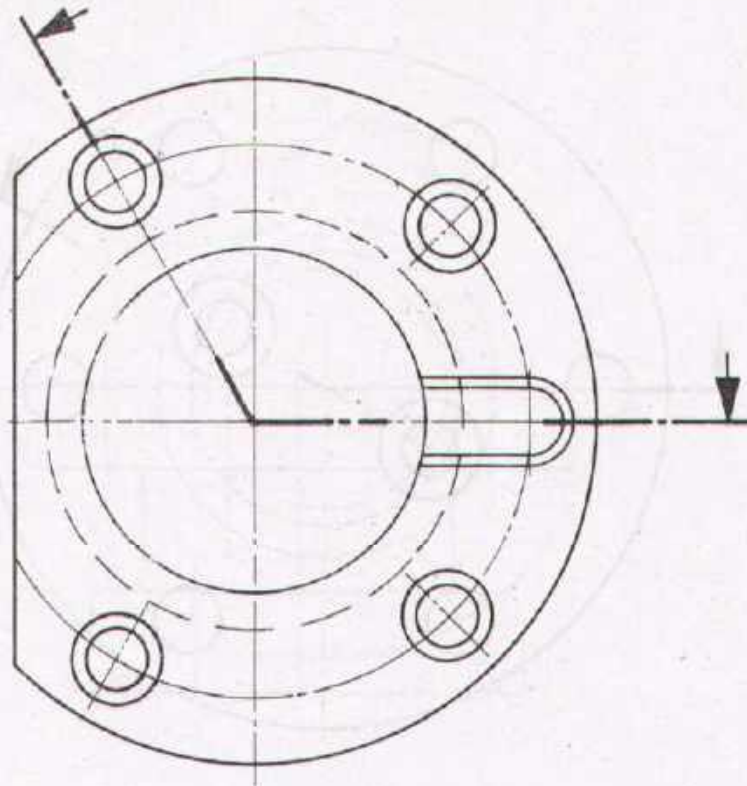
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No 75



Task:

Draw the plan view in section and enter the necessary dimensions

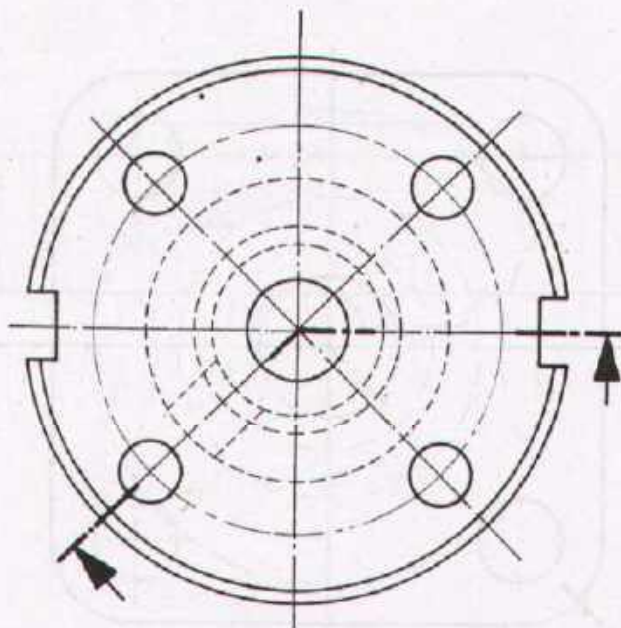
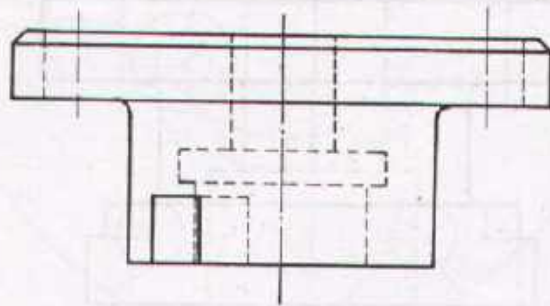
| | | | |
|-----------|--------------------------|---------|--------------------------|
| Scale 1:1 | SECTIONS | | REVOLVED SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 76



Task:

Draw the sectional elevation view and enter the necessary dimensions.

| | | | |
|-----------|-----------------|--|------------------|
| Scale 1:1 | SECTIONS | | REVOLVED SECTION |
|-----------|-----------------|--|------------------|

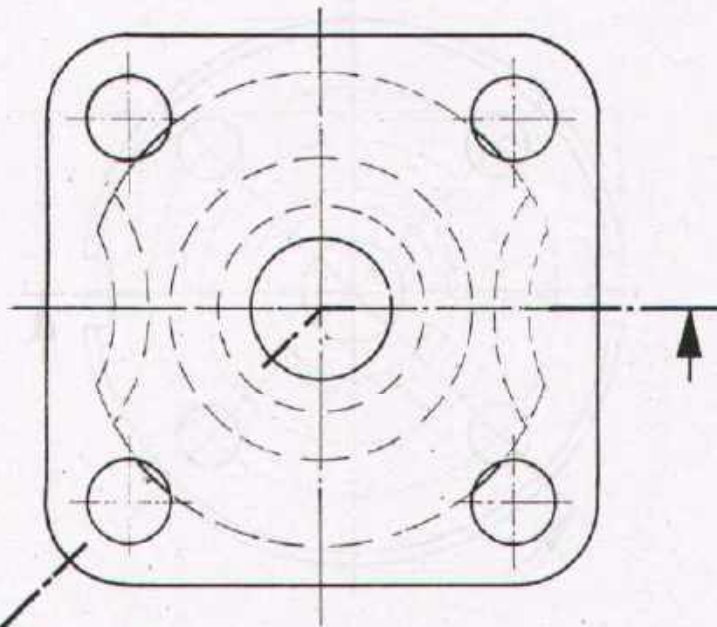
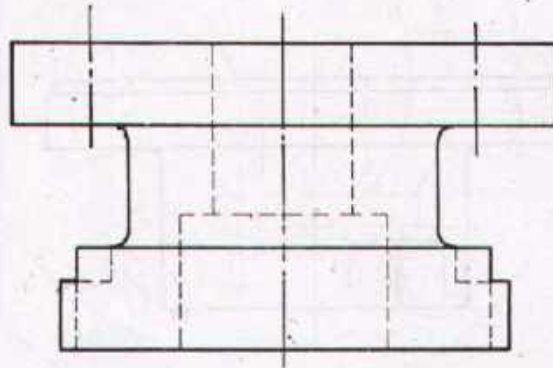
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING


PAK-GERMAN TECHNICAL TRAINING PROGRAMME

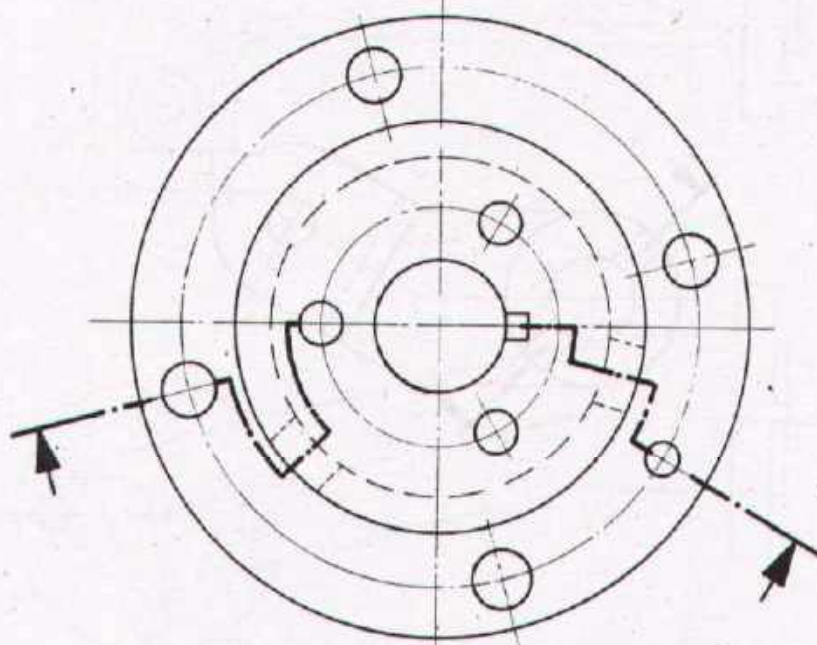
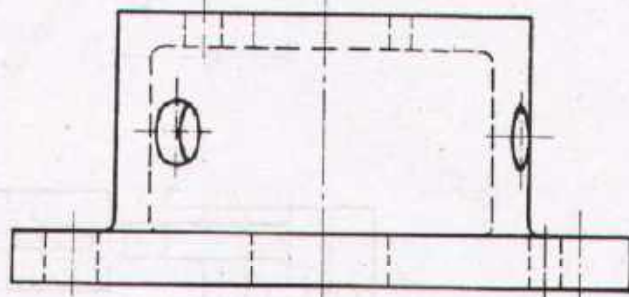
Trade Practice **1**
No. 77



Task:


Draw the sectional elevation view and enter the necessary dimensions.

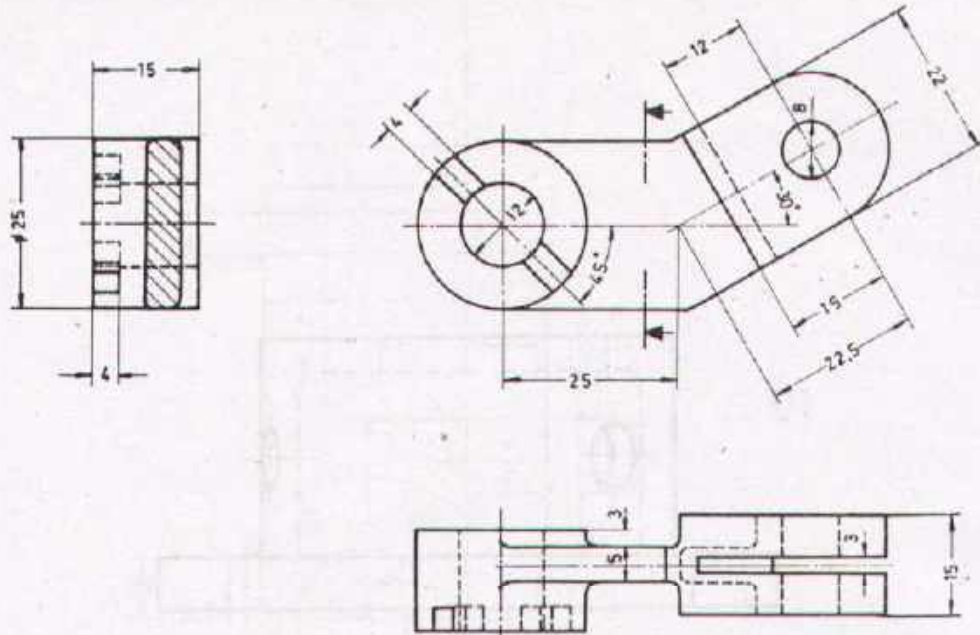
| | | | |
|--|--------------------------|---------|--------------------------------------|
| Scale 1:1 | SECTIONS | | REVOLVED SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 78 |



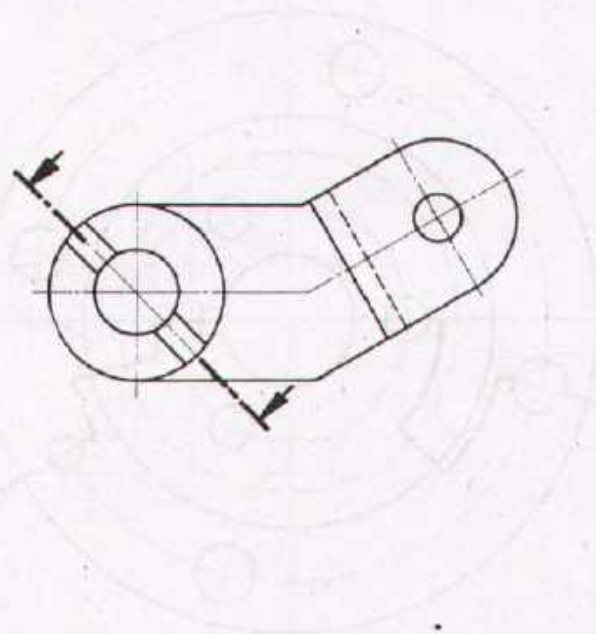
Task:

Draw the elevation view in section and enter the necessary dimensions.

| | | | |
|--|--------------------------|---------|----------------------------------|
| Scale 1:1 | SECTIONS | | REVOLVED & OFF-SET SECTION |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No.79 |




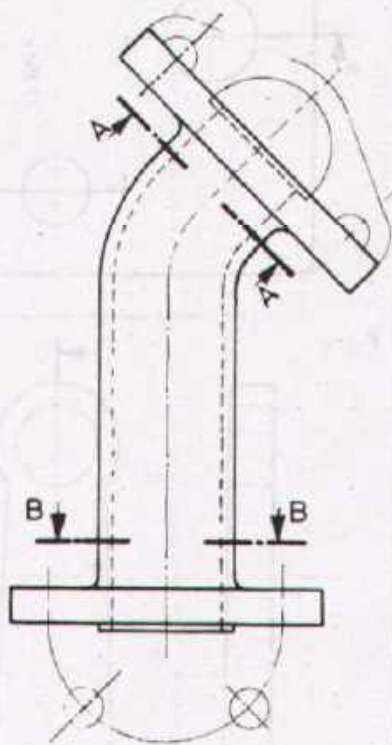
Views like the given plan and side views make a drawing confusing. Instead it is often better to use auxiliary views of particular portion of the workpiece.



Task:

Draw the auxiliary view as indicated and enter the dimensions.

| | | | | |
|--|--------------------------|---------|--------------------------------------|--|
| Scale | SECTIONS | | AUXILIARY VIEW | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ | |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade 1 Practice No. 80 | |



Task:

Draw the sectional views and enter all necessary dimensions.


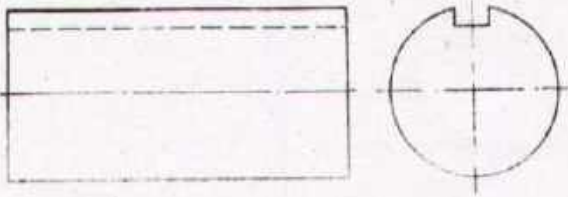
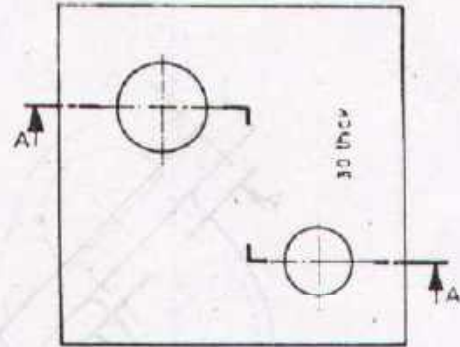
| | | | |
|--|--------------------------|---------|--|
| Scale 2:1 | SECTIONS | | AUXILIARY VIEW |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 81 |

Fig 1



Instead of two views draw only one, showing cross-section. Sizes remain unchanged

Fig 2



Section A-A

Fig 3

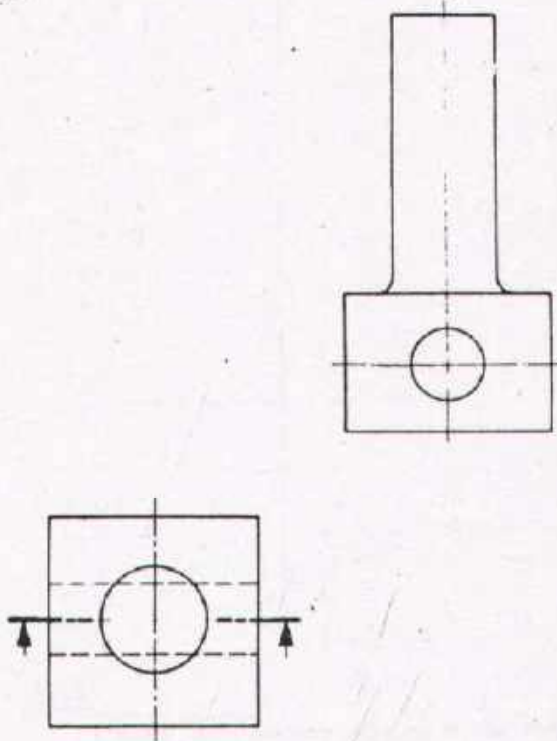
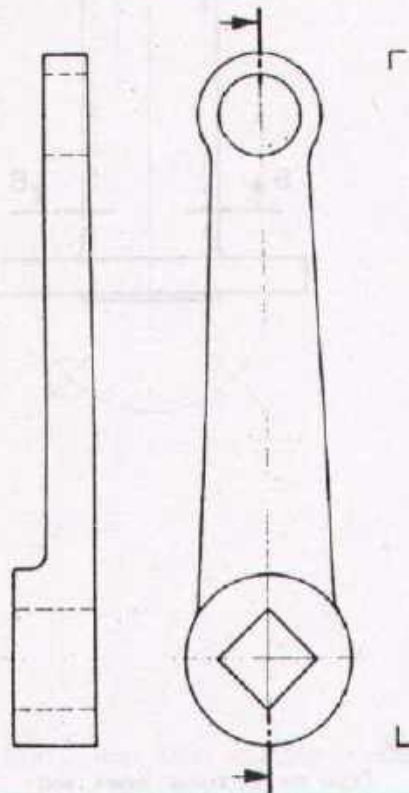


Fig 4



Task:

Draw the required sectional views without dimensions.

Scale 1:2

SECTIONS

JOBS IN SECTIONAL REPRESENTATION

Drawn

Name _____
Date _____

Checked

Name _____
Date _____

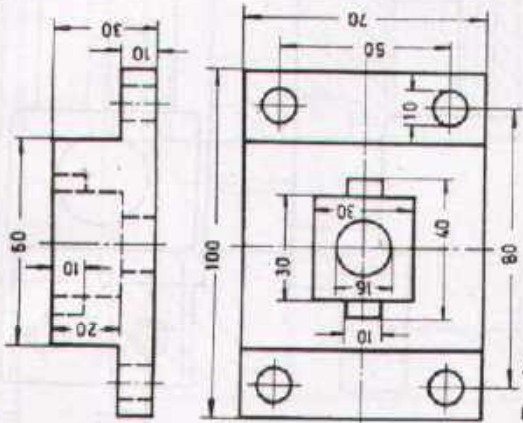


DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice 1
No 82

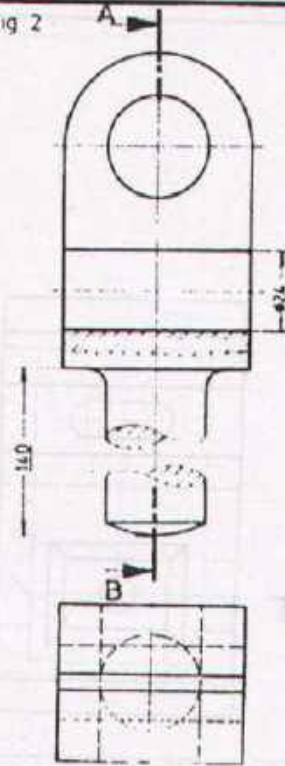
Fig.1



side view in full section

Task:

Fig 2



Section A-B

Section G-C

Fig.3

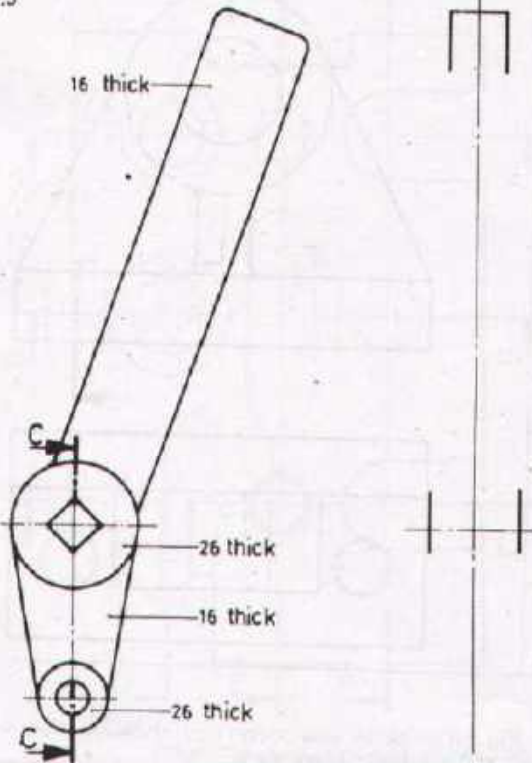
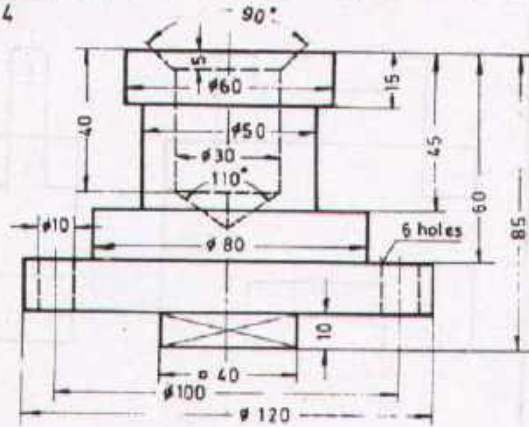


Fig 4



Task:

Elevation in half section
Plan view
Side view is not required

Task: (Fig 2.3)

Draw the required sectional views without dimensions.

Scale 1 : 2

SECTIONS

JOBS IN SECTIONAL REPRESENTATION

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade- **1**
Practice
No. 83

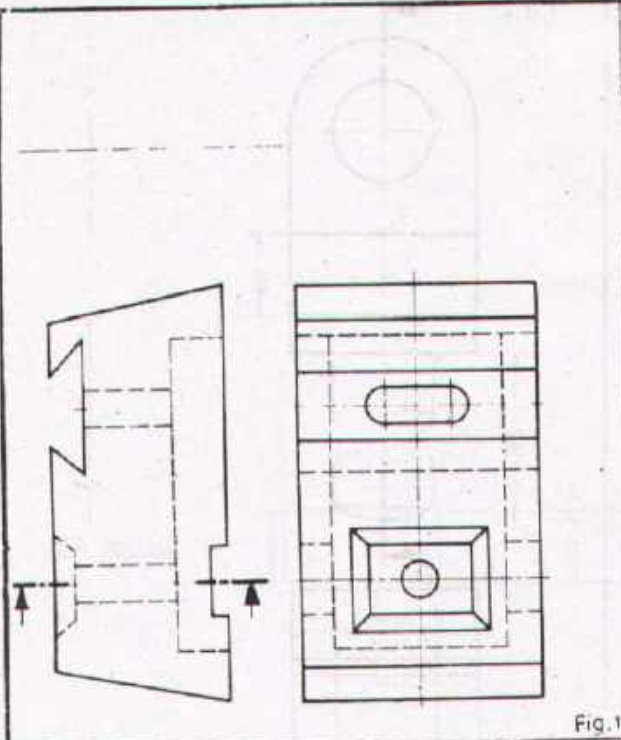


Fig.1

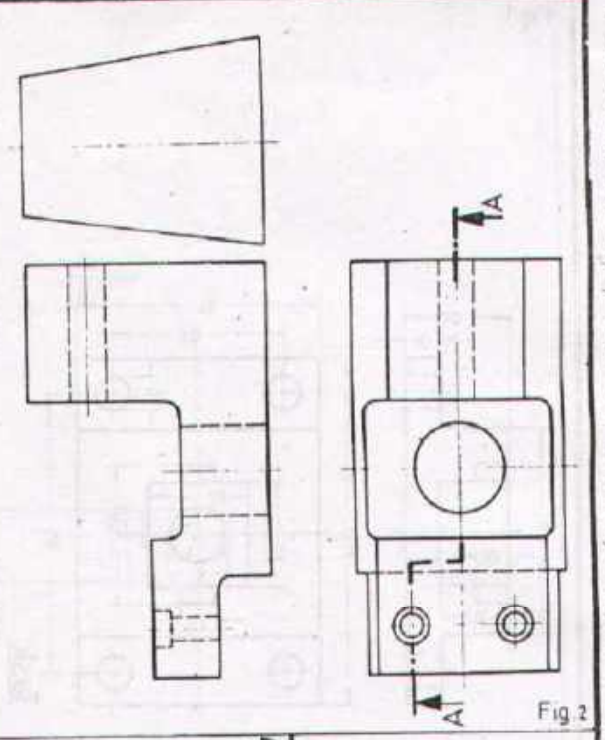


Fig.2

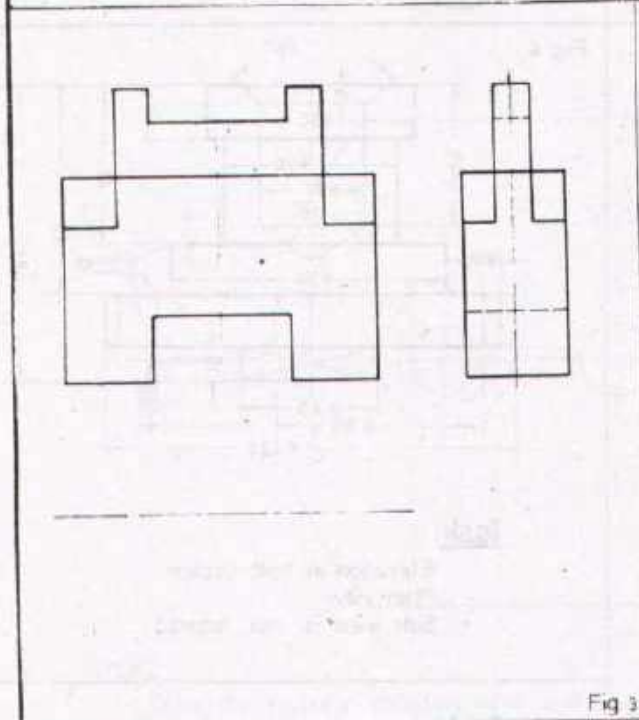


Fig.3

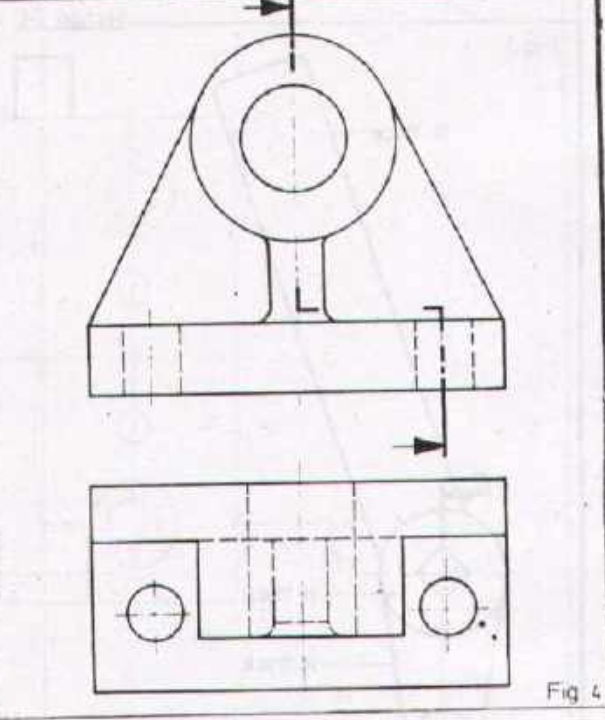


Fig.4

Task:

Draw:
 Fig.1-Sectional elevation and side view Fig.2-Complete side view and show section A-A
 Fig.3-Plan view Fig.4-Sectional side view and complete plan view

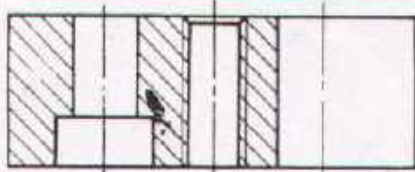
| | | | |
|-----------|--------------------------|---------------|----------------------------------|
| Scale 1:2 | SECTIONS | | JOBS IN SECTIONAL REPRESENTATION |
| Drawn | Name _____ Date _____ | Checked _____ | Name _____ Date _____ |



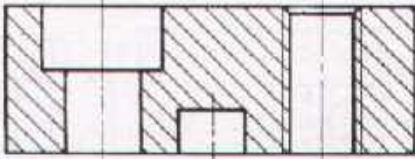
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

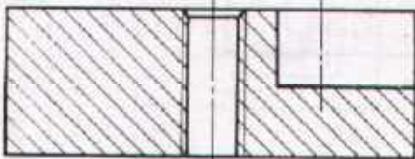
Trade Practice No. 84



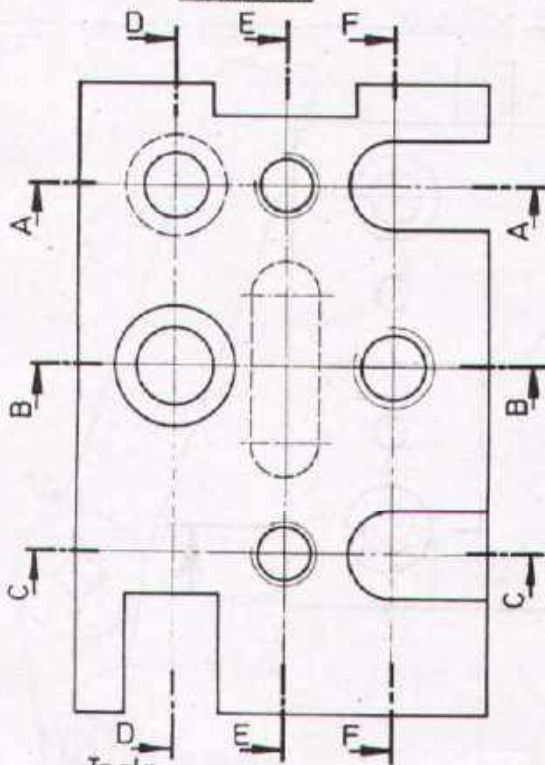
Section A-A



Section B-B



Section C-C



Task:

Draw the sectional side views and enter all necessary dimensions.

Section D-D

Section E-E

Section F-F

Scale 1:1

REPRESENTATION OF THREADS

Drawn

Name _____
Date _____

Checked

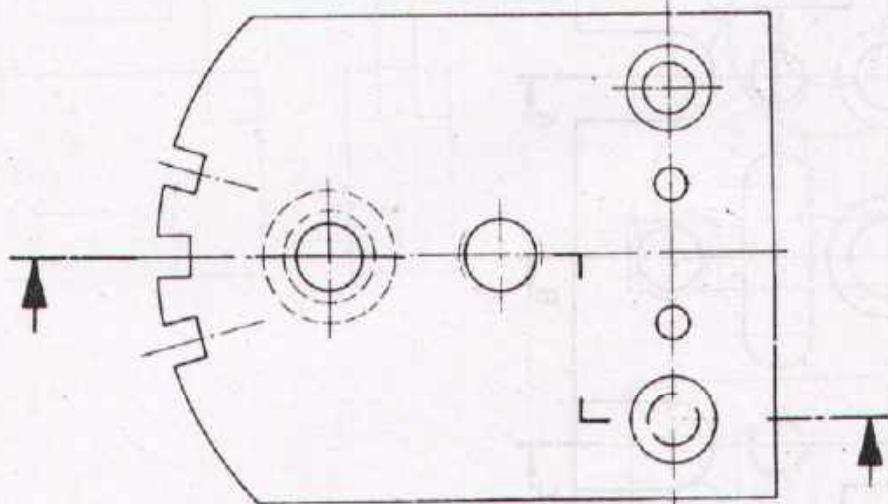
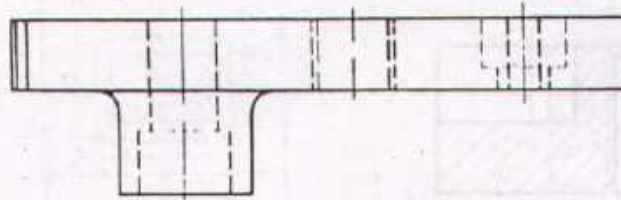
Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING


PAK-GERMAN TECHNICAL TRAINING PROGRAMME

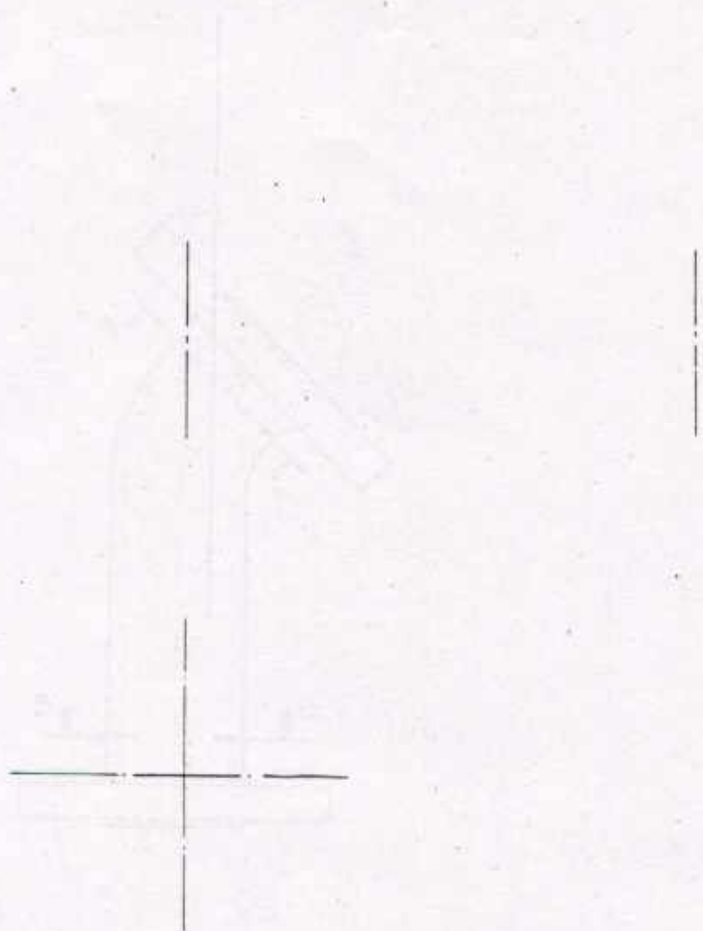
Trade **1**
Practice
No. 85



Task:

Draw the sectional elevation view and enter all necessary dimensions.

| | | | |
|--|----------------------------------|---------|-----------------------------------|
| Scale 1:1 | REPRESENTATION OF THREADS | | |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 86 |



Task:

Prepare a workshop drawing of a Hexagon Nut
 M 24, DIN 934 in scale 1:1
 Enter all necessary dimensions.

| | | |
|-----------|---------------------------|-------------|
| Scale 1:1 | REPRESENTATION OF THREADS | HEXAGON NUT |
|-----------|---------------------------|-------------|

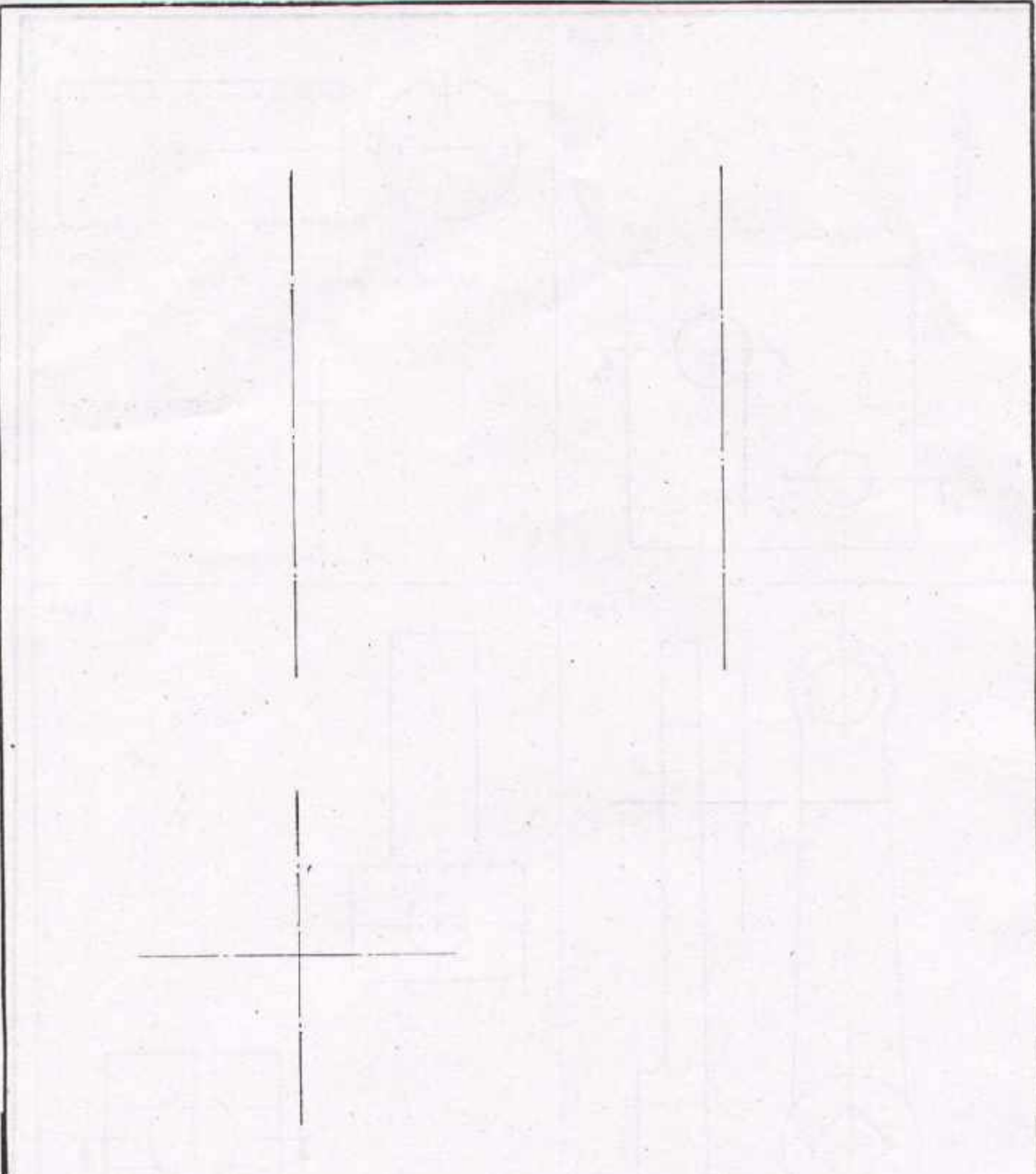
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING


PAK GERMAN TECHNICAL TRAINING PROGRAMME

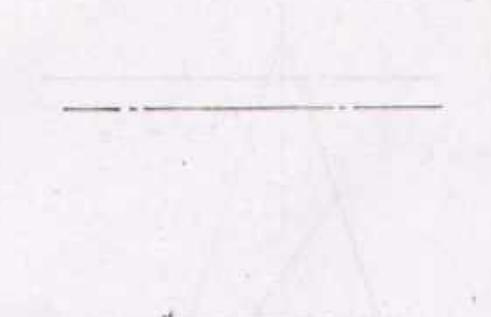
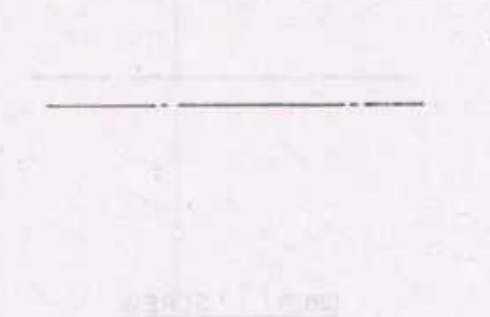
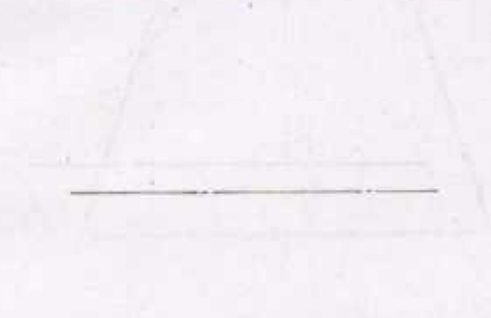
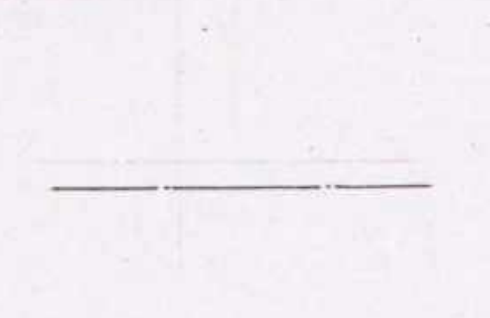
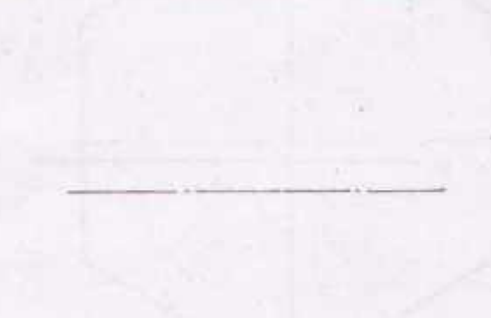
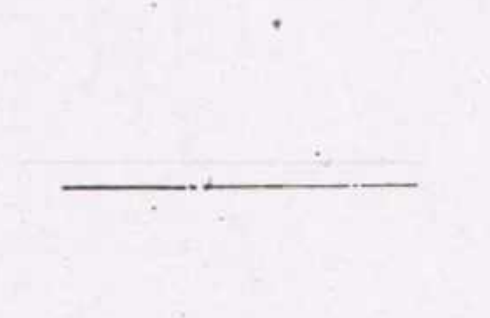
Trade Practice **1**
 No. 87



Task:

Prepare the assembly drawing of the nut and the bolt in three views according to your table
Enter all necessary dimensions. Scale 1:1.
Hexagon Bolt M24x65 DIN 931
Hexagon Nut M24 DIN 934

| | | | |
|---|----------------------------------|---------|-------------------------------------|
| Scale 1:1 | REPRESENTATION OF THREADS | | NUT & BOLT |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING | | | Trade 1 Practice No.88 |
| PAX - GERMAN TECHNICAL TRAINING PROGRAMME | | | |

| | |
|---|--|
|  <p>CHEESE HEAD SCREW M 10 x 35 DIN 84</p> |  <p>M 10 x 40 DIN 87</p> |
|  <p>M 10 x 35 DIN 85</p> |  <p>M 10 x 40 DIN 88</p> |
|  <p>M 10 x 35 DIN 86</p> |  <p>M 10 x 35 DIN 7984</p> |

Task:

- Draw the screws according to the given specification.
- Write the correct name of each screw as shown in the example.
- Give their dimensions.

Scale 1:1 **20 REPRESENTATION OF THREADS** VARIOUS SCREWS


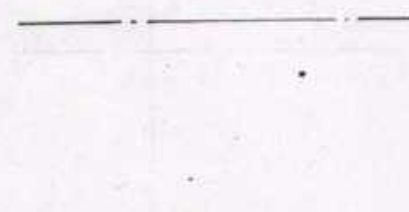
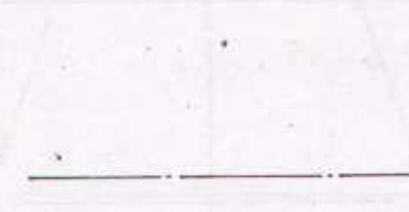
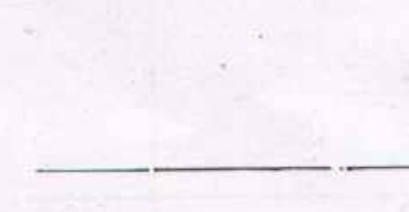

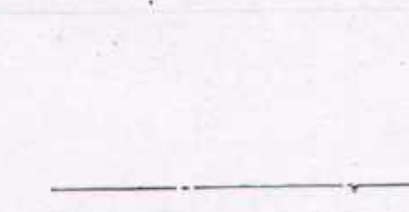
| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 89

| | |
|--|---|
|  <u>GRUB SCREW</u> M10 x 40 DIN 553 |  M 10 x 35 DIN 912 |
|  M 10 x 40 DIN 914 |  M 10 x 35 DIN 478 |
|  M 10 x 35 DIN 931 |  # 1/2" B.S.P. DIN 910 |

Task:

Draw the screws according to the given specification.
Write the correct name of each screw as shown in the example.
Give their dimensions

Scale 1:1 **REPRESENTATION OF THREADS** VARIOUS SCREWS







| | | | |
|-------|--------------------------|---------|--------------------------|
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|-------|--------------------------|---------|--------------------------|



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAX-GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 90

| | |
|--|---|
|  <p>SQUARE NUT M 12 DIN 557</p> |  <p>M 10 DIN 466</p> |
|  <p>M 12 DIN 1587</p> |  <p>M 12 DIN 97</p> |
|  <p>M 12 DIN 935</p> |  <p>M 12 DIN 546</p> |

Task:

Draw the nuts according to the given specification.
Write the correct name of each nut as shown in the example.
Give their dimensions.

Scale 1:1 **REPRESENTATION OF THREADS** VARIOUS SCREWS

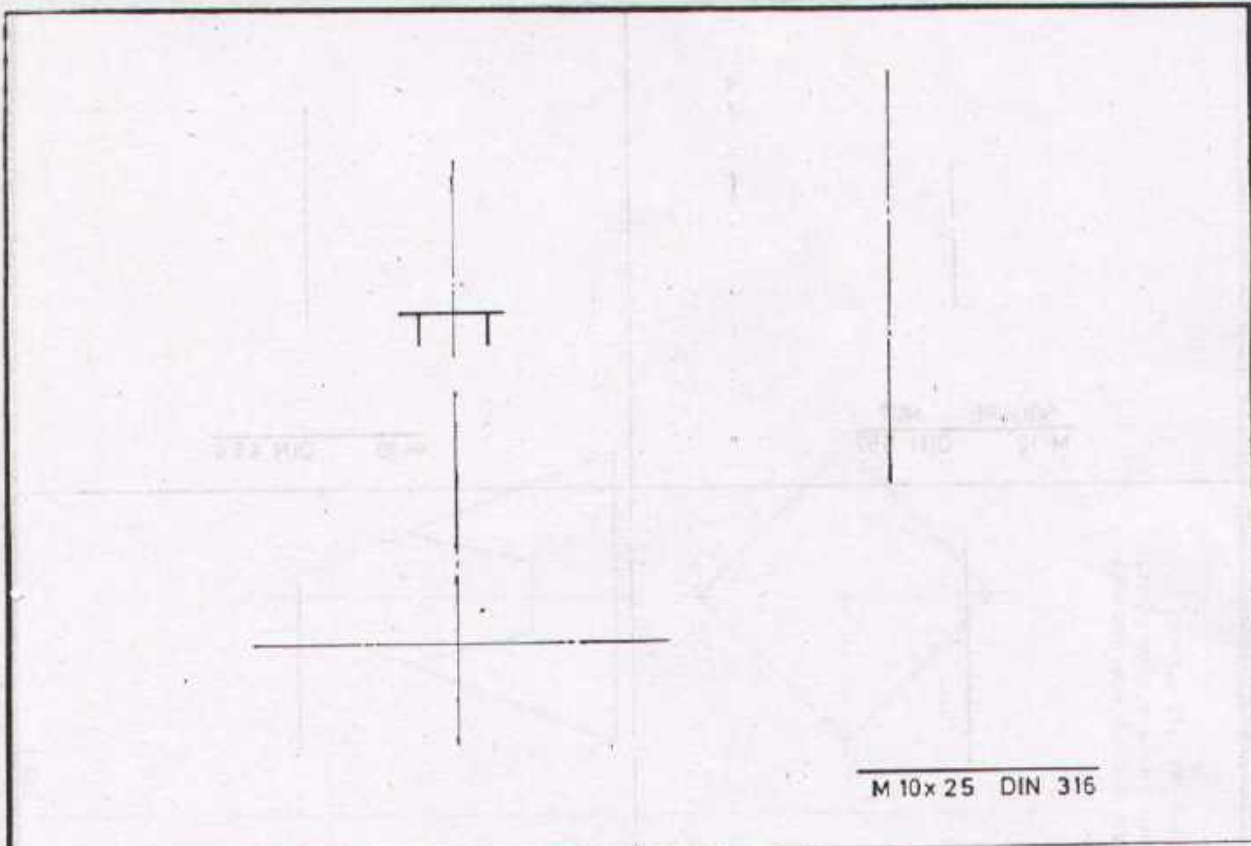
Drawn Name _____ Date _____ Checked Name _____ Date _____



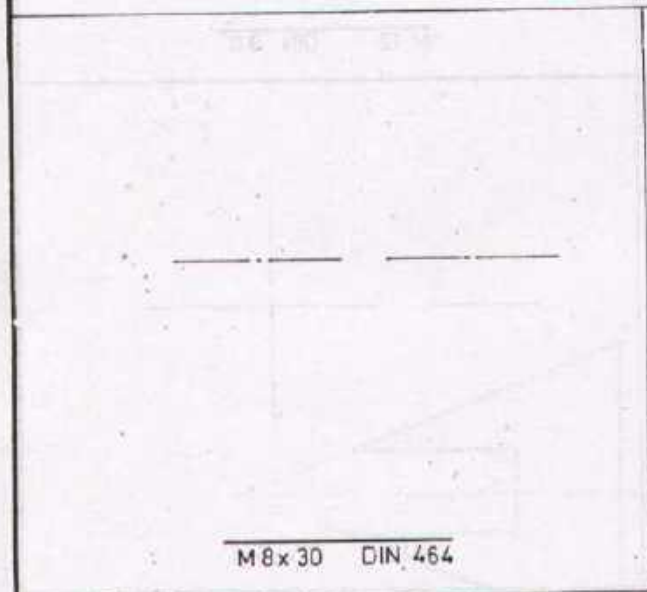
DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 91



M 10x 25 DIN 316



M 8x 30 DIN 464



M 10x 40 DIN 938

Task:
 Draw the machine elements according to the given specification.
 Write the correct name of each element.
 Give their dimensions. (Size should be taken from the table book.)

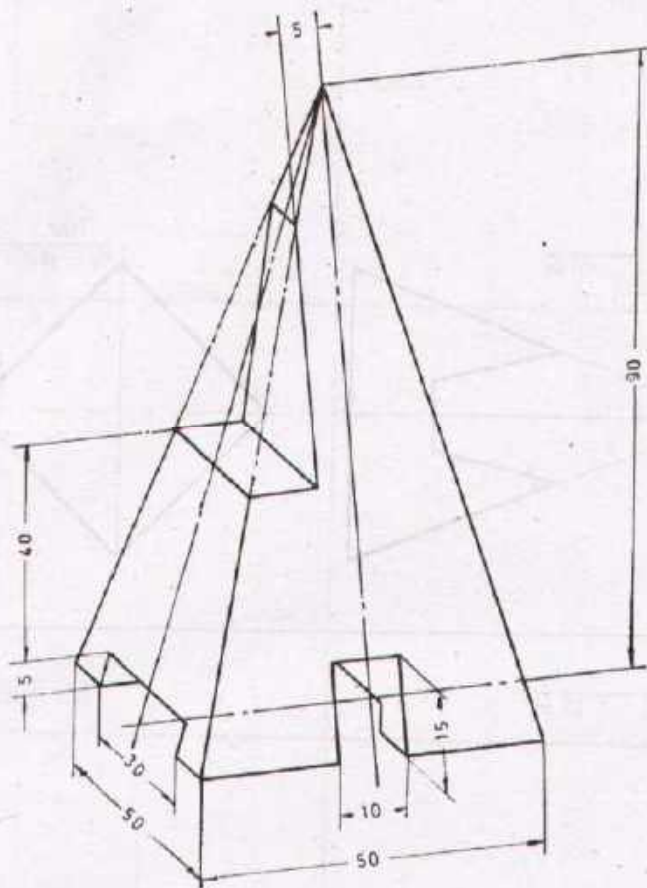
| | | | |
|-------------|----------------------------------|---------|--------------------------|
| Scale : 1:1 | REPRESENTATION OF THREADS | | VARIOUS SCREWS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
 No. 92



Task

Draw the three views of the given job in full scale.
The direction of the arrow indicates the elevation.


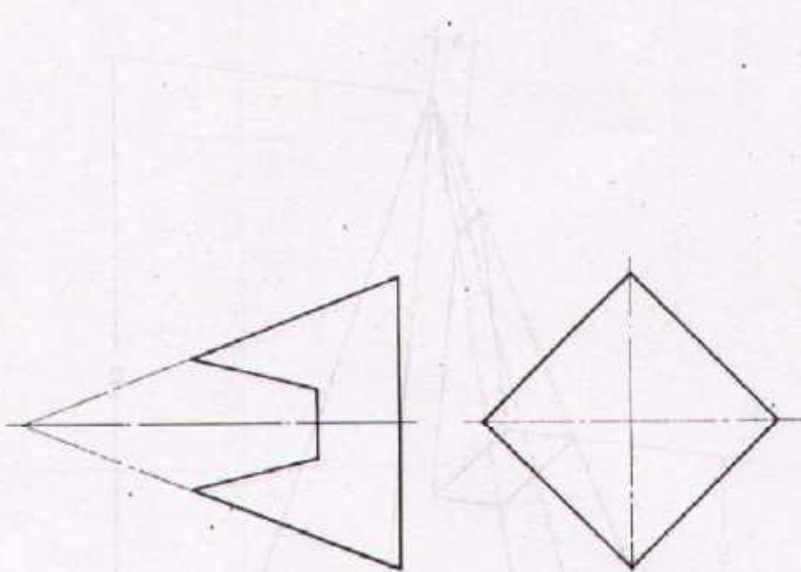
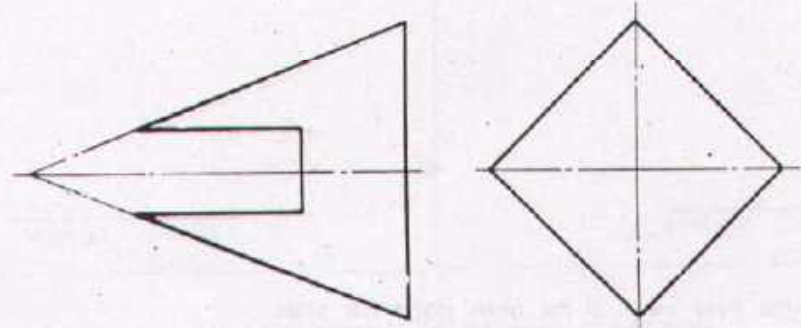
| | | | |
|--|--------------------------|---------|-----------------------------------|
| Scale 1:1 | CUTS ON PYRAMIDS | | RECTANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 93 |


Fig 2

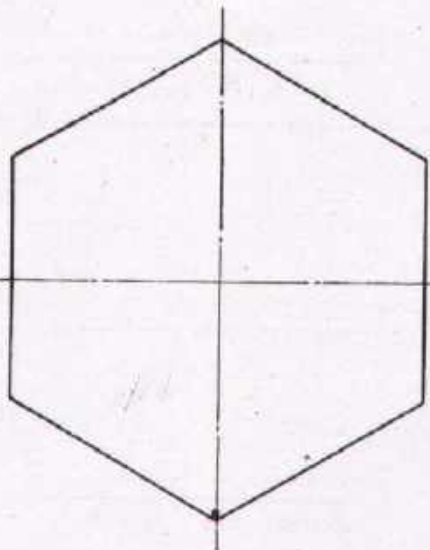
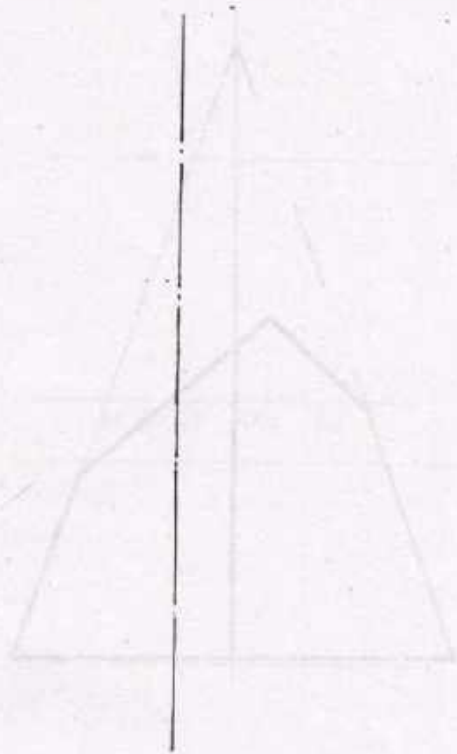
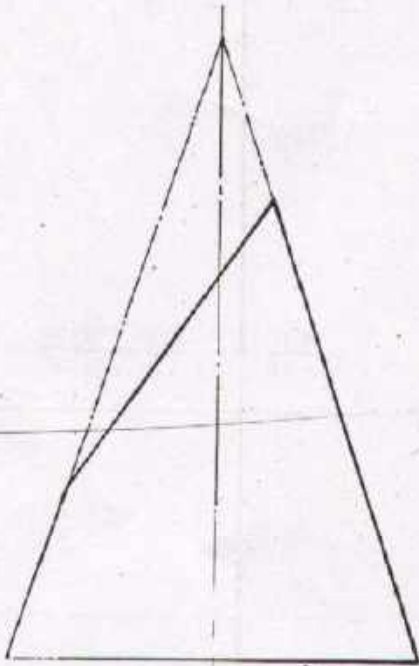


Task: Draw the missing and complete the given views of both figures. Dimensions are not required.

Fig 1




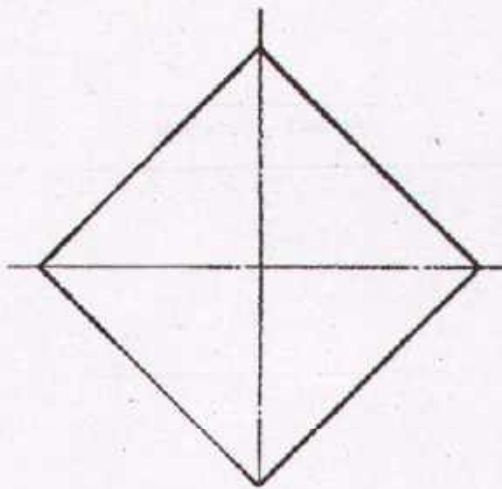
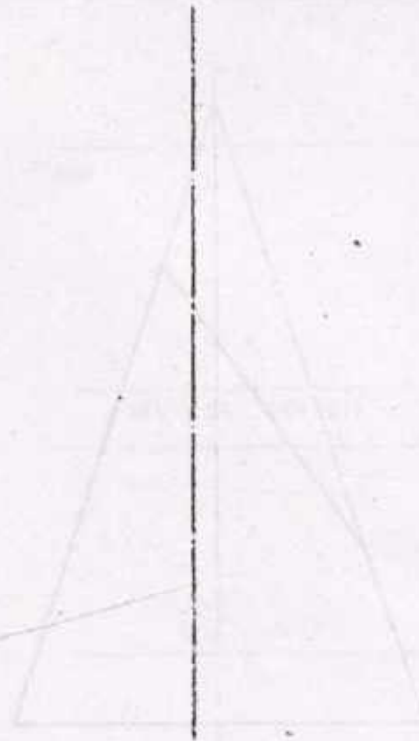
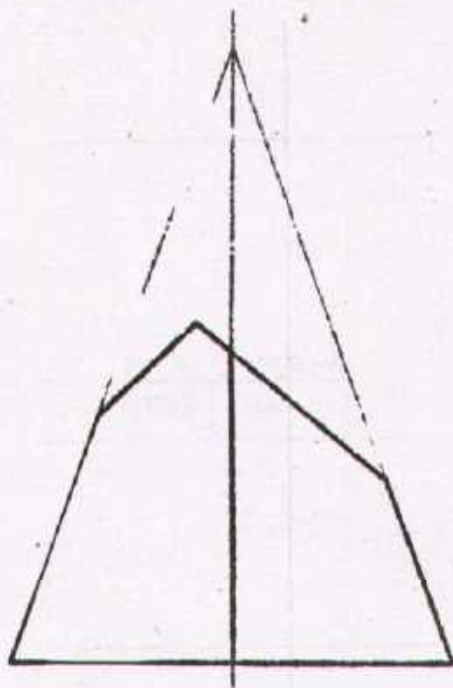
| | | | |
|--|--------------------------|---------|----------------------------------|
| Scale 1:1 | CUTS ON PYRAMIDS | | ANGULAR & RECTANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No.94 |



Task


Draw the side view, complete the elevation and plan views.
Dimensions are not required.

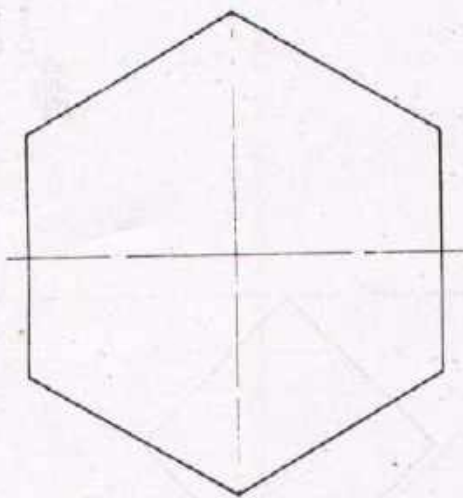
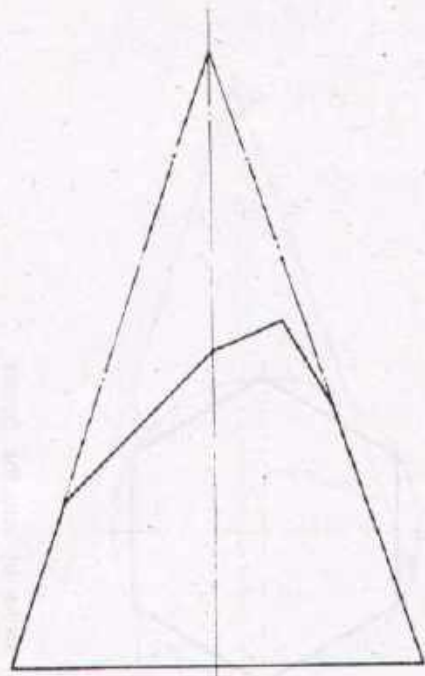
| | | | |
|--|--------------------------|---------|-------------------------------------|
| Scale 1:1 | CUTS ON PYRAMIDS | | ANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade 1 Practice No 95 |



Task

Draw the side view and complete the plan view.
Dimensions are not required.

| | | | |
|--|--------------------------|---------|---|
| Scale 1:1 | CUTS ON PYRAMIDS | | ANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No 96 |



Task:

Draw the side view, complete the elevation and plan views
 Dimensions are not required


| | | | |
|--|--------------------------|---------|-----------------------------------|
| Scale 1:1 | CUTS ON PYRAMIDS | | ANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK-GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 97 |

Fig 2

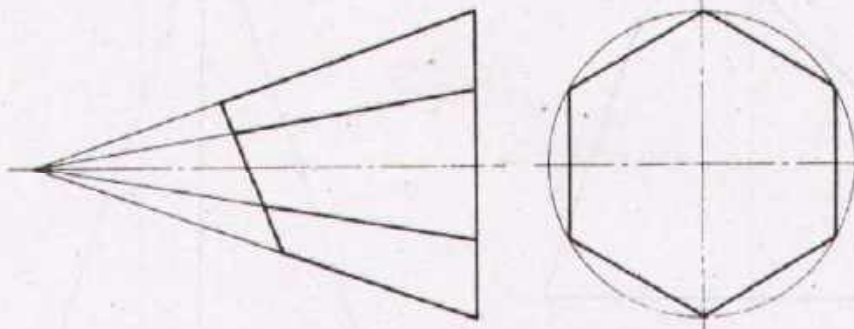
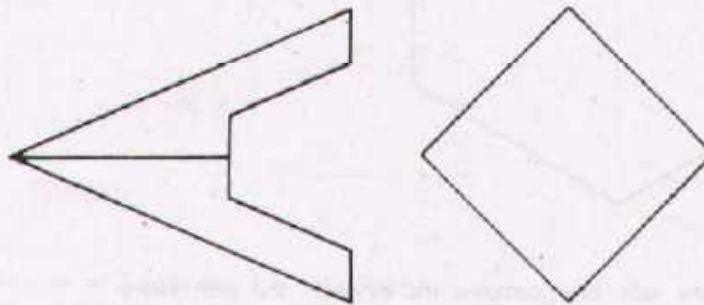


Fig 1



Task: Draw the missing views of both the figures
Dimensions are not required

Scale 1:1

CUTS ON PYRAMIDS

ANGULAR CUTS

Drawn

Name _____
Date _____

Checked

Name _____
Date _____



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK-GERMAN TECHNICAL TRAINING PROGRAMME

Trade Practice **1**
No. 98

Fig 2

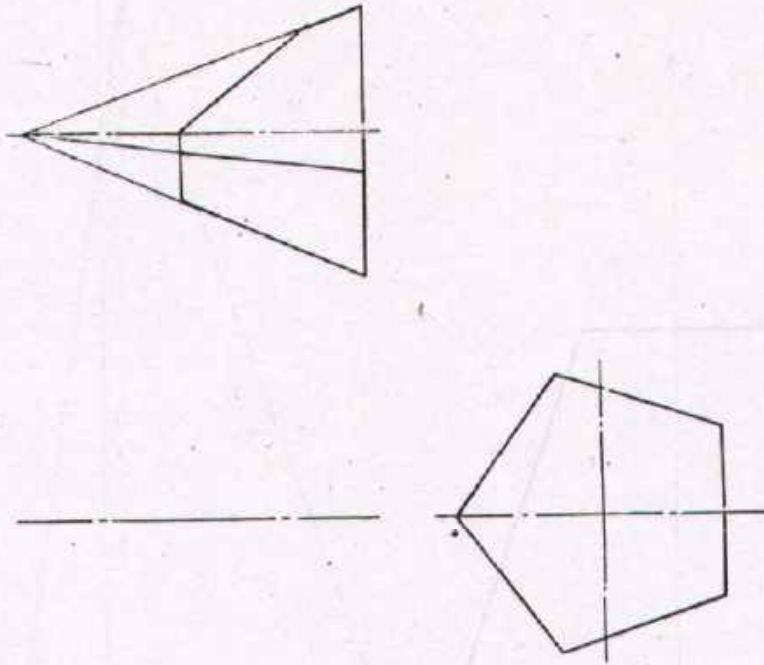
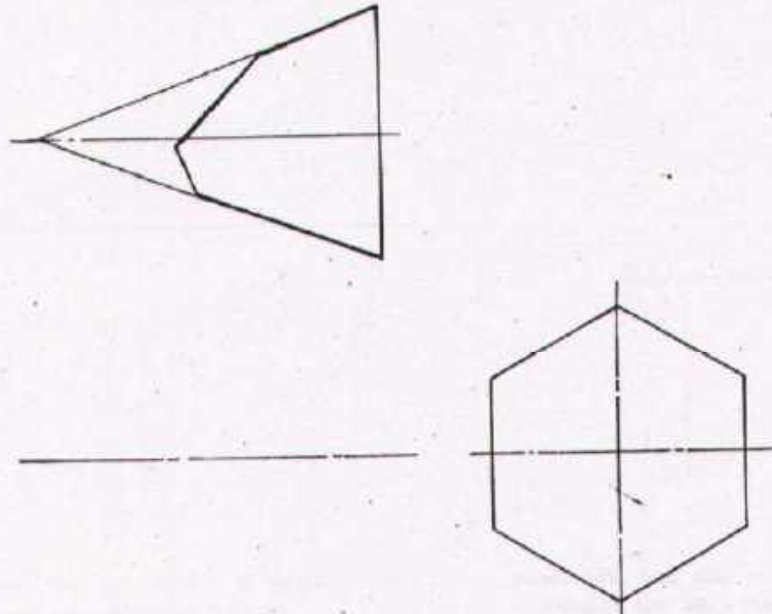

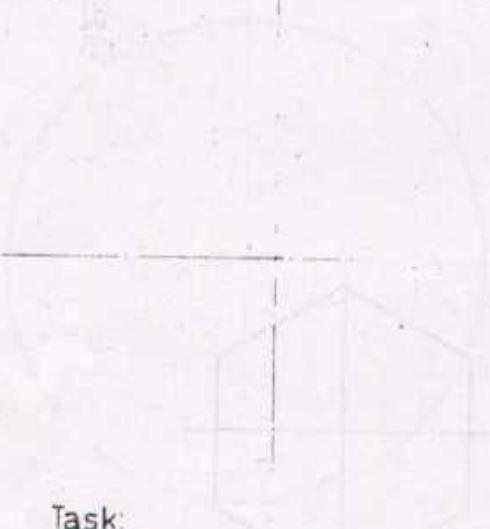
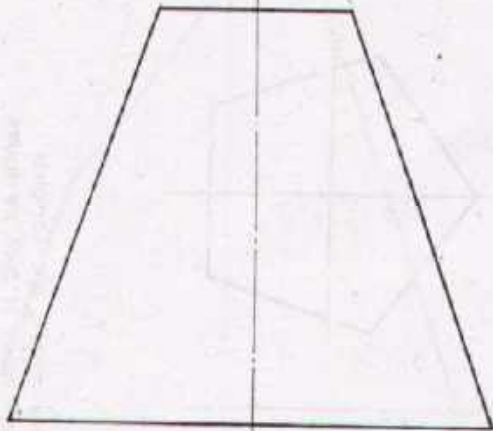


Fig 1



Task:
 Draw the missing arc complete
 the given views of both the figures
 Dimensions are not required.

| | | | |
|--|--------------------------|---------|--------------------------------------|
| Scale 1:1 | CUTS ON PYRAMIDS | | ANGULAR CUTS |
| Drawn | Name _____ Date _____ | Checked | Name _____ Date _____ |
|  DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING PAK GERMAN TECHNICAL TRAINING PROGRAMME | | | Trade Practice 1 No. 99 |



Task:

Draw the side and plan views
Dimensions are not required

| | | | |
|-------------|--------------------------|---------------|--------------------------|
| Scale 1:1 | CUTS ON CONES | | RECTANGULAR CUTS |
| Drawn _____ | Name _____ Date _____ | Checked _____ | Name _____ Date _____ |



DEVELOPMENT CELL FOR SKILLED LABOUR TRAINING

PAK GERMAN TECHNICAL TRAINING PROGRAMME

Trade **1**
Practice
No. 100