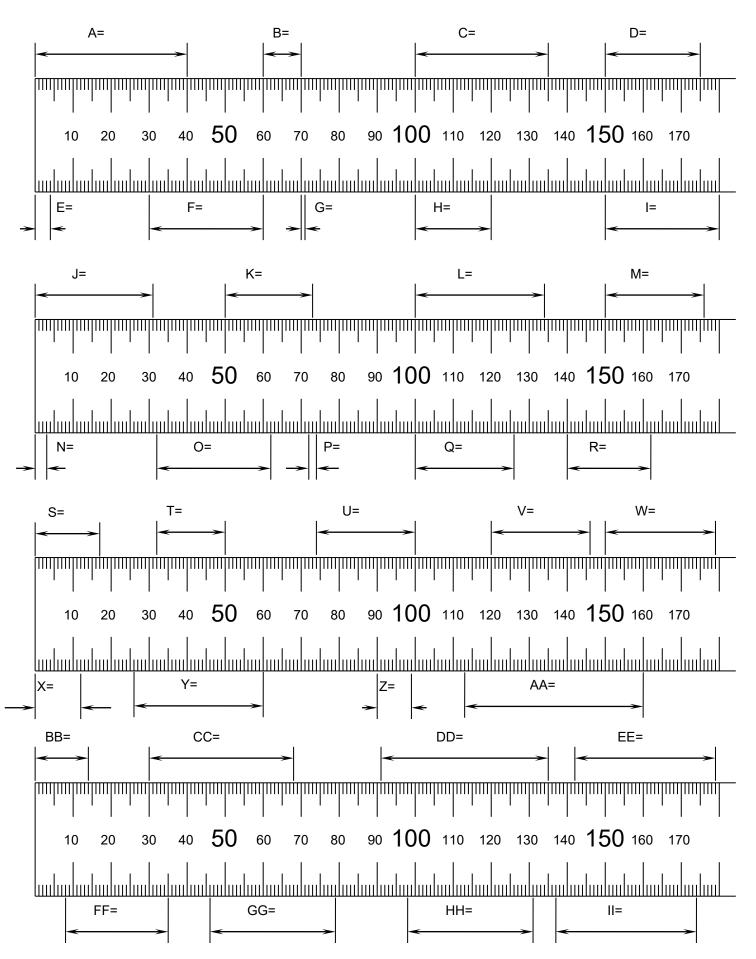
Drawing

and

Measuring Exercises

Write the values for each of the measurements shown in millimetres.

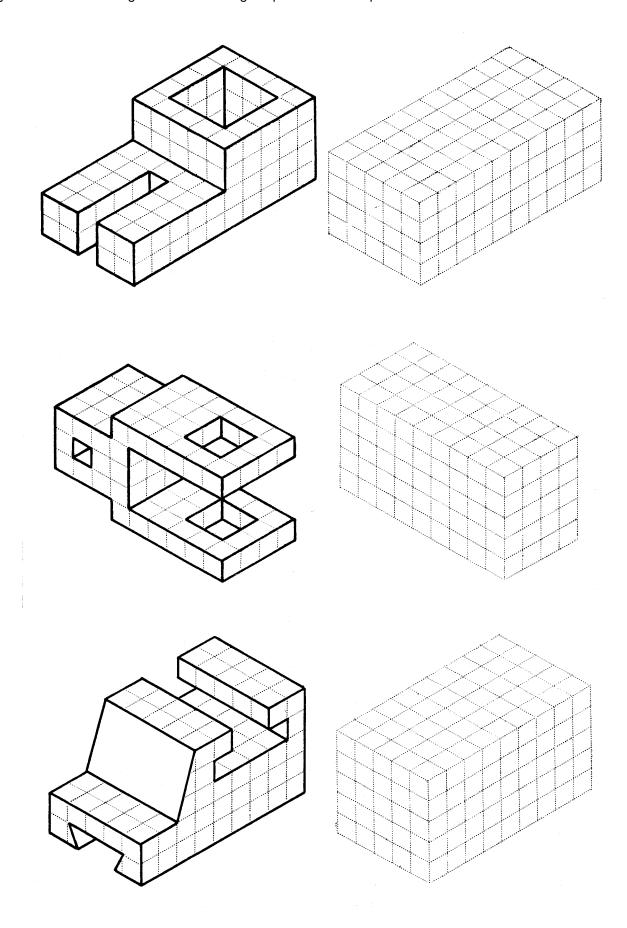


Measure each of the blocks shown and write the sizes in millimetres in the table.

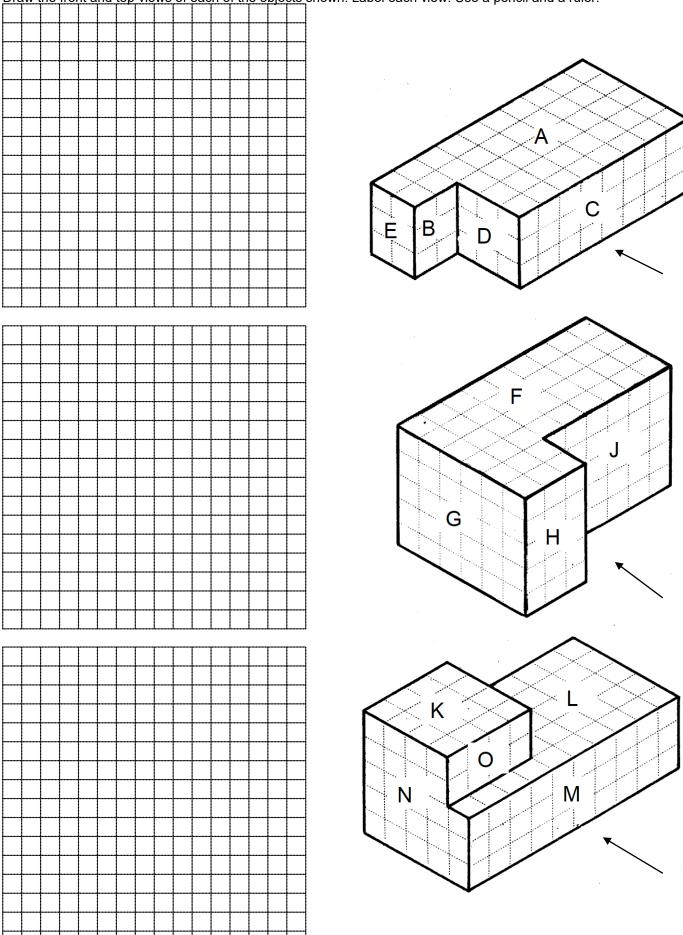
Block	Length (Largest)	Width (Middle)	Thickness (Smallest)
Α			
В			
С			
D			

A		
В		
С		
D		

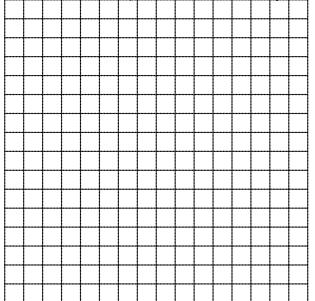
Copy the isometric drawings shown onto the grids provided. Use a pencil and a ruler.

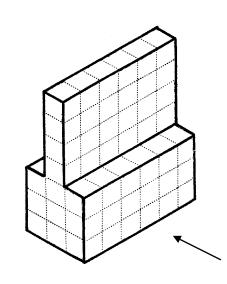


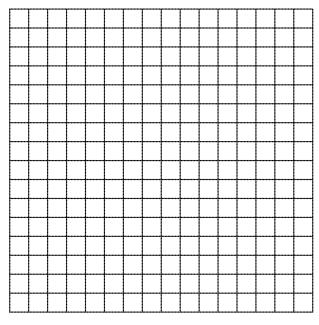
<u>Draw the front and top views of each of the objects</u> shown. Label each view. Use a pencil and a ruler.

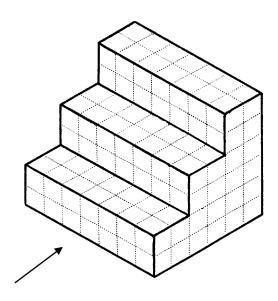


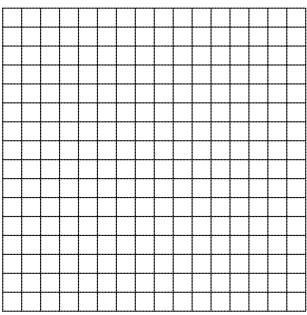
<u>Draw the front and top views of each of the objects</u> shown. Label each view. Use a pencil and a ruler.

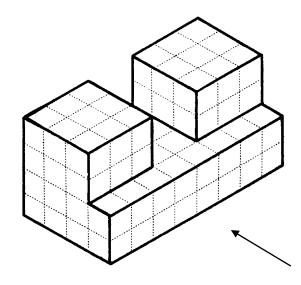












Label the faces on the Orthogonal Views with the letters shown on the corresponding faces in the Isometric View

Drawing Exercise 5				
Copy the isometric drawings shown onto the grids provided. Use a pencil and a ruler.				

Drawing Exercise 6
Copy the Isometric Drawings shown onto the Oblique Drawing grids provided. Use a pencil and a ruler.

Measure each of the dimensions indicated and write the sizes in the table.

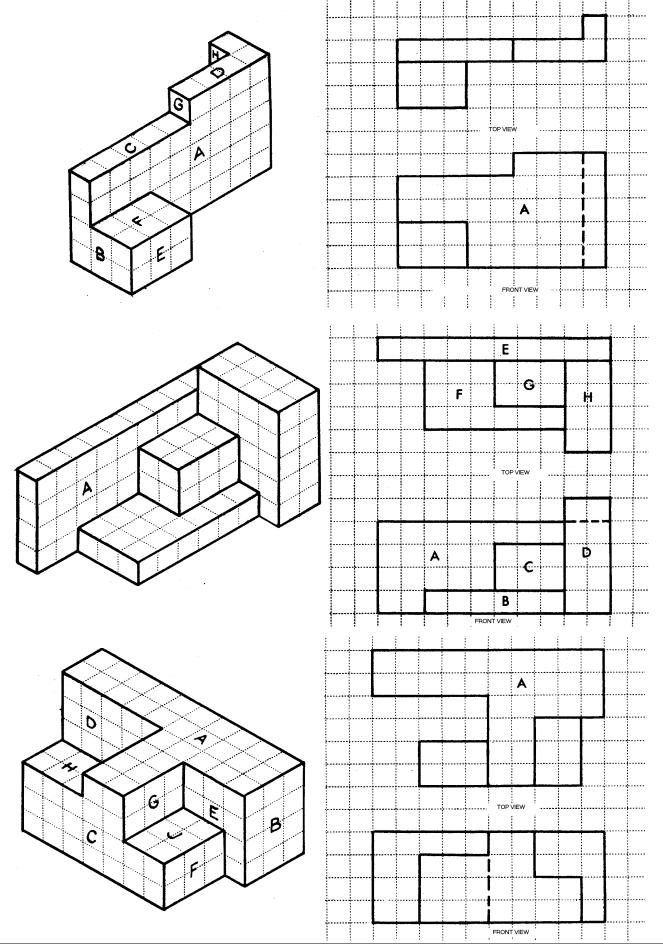
FEATURE	SIZE
Number of circles on pitch circle	
Angle A	
Diameter of Circle B	
Pitch Circle Diameter C	
Small Circle Diameter D	

FEATURE	SIZE
Number of circles on pitch circle	
Angle E	
Angle F	
Diameter of Circle G	
Diameter of Small Circle H	
Pitch Circle Diameter I	

FEATURE	SIZE
Number of circles on pitch circle	
Angle J	
Angle K	
Angle L	
Small Circle Diameter M	
Large Circle Radius N	
Pitch Circle Diameter O	

FEATURE	SIZE
Number of circles on pitch circle	
Angle P	
Angle Q	
Large Circle Radius R	
Small Circle Radius S	
Pitch Circle Diameter T	

Label the faces on the Isometric Drawings so they correspond to the letters on the Orthogonal Views. Use a pencil.



Measure each of the dimensions indicated, calculated the real size in millimetres and write the real sizes in the tables.

Scale 1:4			
1mm on the drawing = 4mm real size			
Length			
Width			
Thickness			

Scale 1:2		
1mm on the drawing = 2mm real size		
Diameter of circle D		
Pitch Circle Diameter E		
Distance between centres F		
Diameter of Small Circle G		

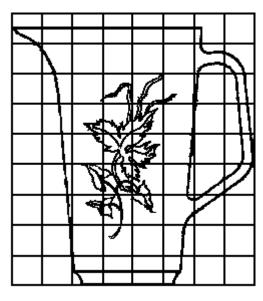
	Scale 1:2				
1n	1mm on the drawing = 2mm real size				size
CUTTING LIST					
Part	Description	L	W	Т	No Req'd
Α					
В					
С					

Enlarge the Milk Jug using a grid enlargement method so that fits in the grid provided. Use a pencil.

The 9 square by 8 square grid is drawn bigger to make the jug about 180mm high. $\,$

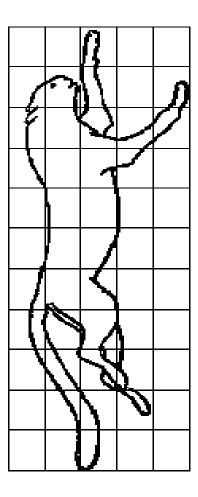
Fill in the Table to indicate the size of the squares in millimetres that would give the result required.

Jug Height Desired	Jug Width Desired	Square Size Needed
	80	
	320	
	400	
180		
120		
250		

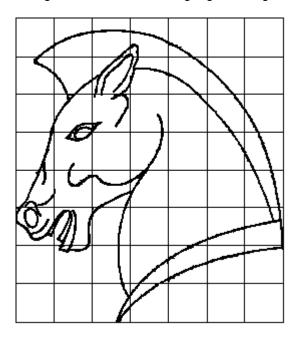


250					

Drawing Exercise 9Enlarge the Cheetah using a grid enlargement method so that it is 220mm long.



Enlarge the Horse Head using a grid enlargement method so that it is 140mm wide.



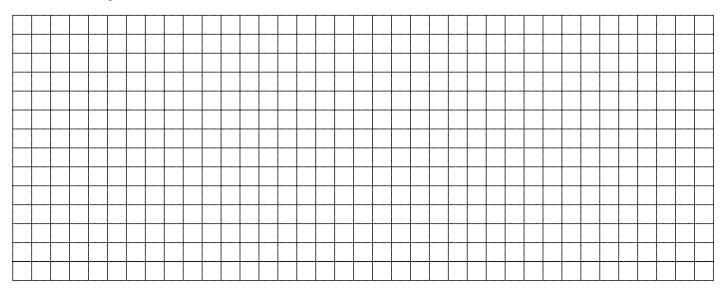
Enlarge the Lion using a grid enlargement method so that it is 120mm wide.



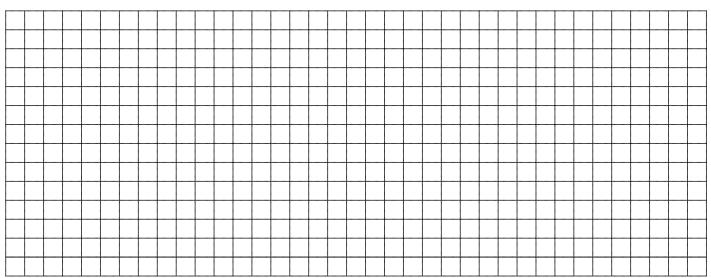
Plan and draw the DEVELOPMENT of a MATCHBOX.

- * then draw it again on a piece of coloured paper
- * cut the coloured paper out and fold it together (use no glue).
- * glue the base of coloured paper model onto the worksheet making sure to match the faces.

Matchbox Sliding Section



Matchbox Cover Section



Plan and draw the DEVELOPMENT of a SMALL CARDBOARD CONTAINER make sure to add allowances for assembly. Then:

- * draw it again on a piece of coloured paper
- * cut the coloured paper out and fold it together to test it (use no glue).
- * glue **one face** of the of coloured paper model onto the worksheet making sure to match the faces.

