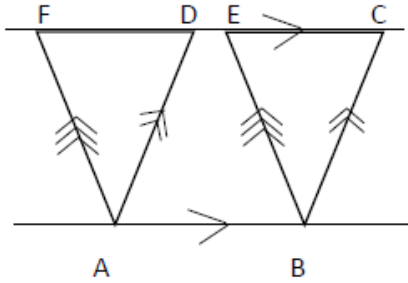




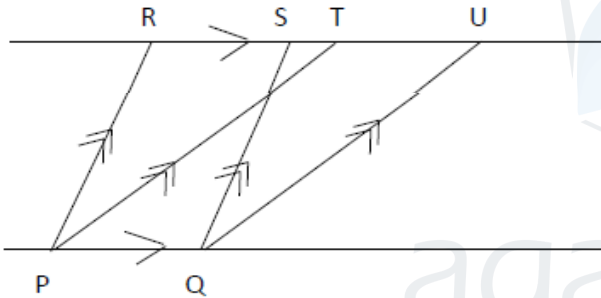
## 8) Areas of Plane Figures Between Parallel Lines

### Part I

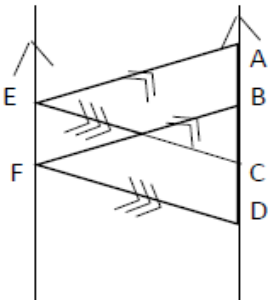
1. According to the data in the figure name two parallelograms which are equal in area.



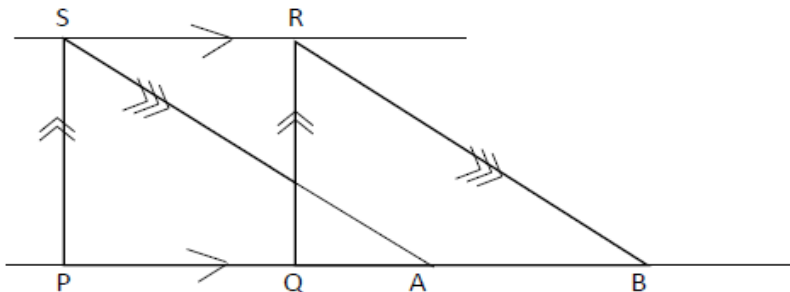
2. Area of the parallelogram PQSR is  $72\text{cm}^2$  and  $PQ=6\text{cm}$ . Find the perpendicular distance between PQ and TU parallel lines.



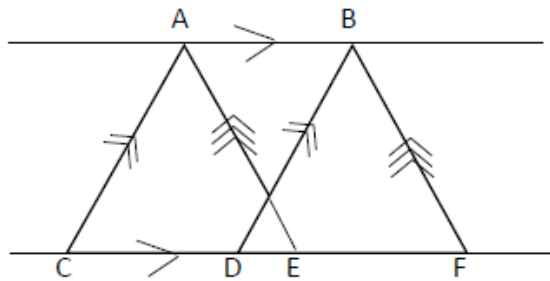
3. Area of the parallelogram ABFE is  $120\text{cm}^2$ . By giving reasons find the area of the parallelogram CDFE.



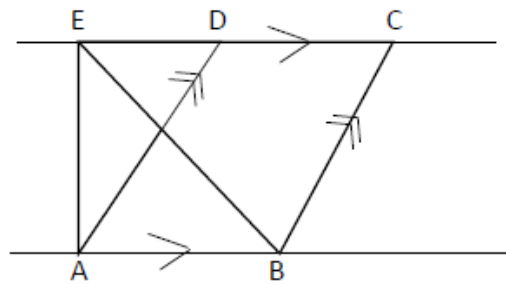
4. In the diagram PQRS is a rectangle.  $PQ=10\text{cm}$  and  $PS=8\text{cm}$ . By giving reasons find the area of the parallelogram ABRS.



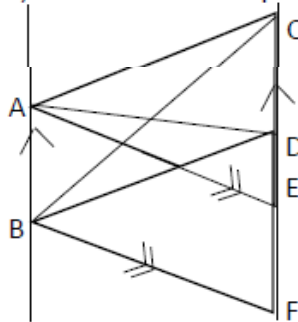
5. According to the data in the figure, name two parallelograms which are equal in area.



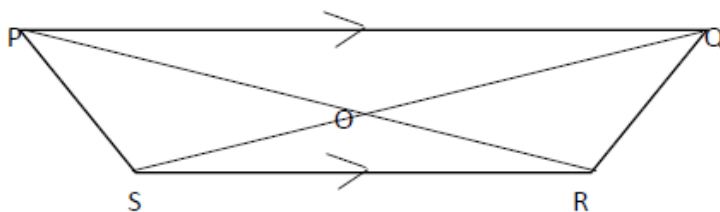
6. Area of the parallelogram ABCD is  $120\text{m}^2$ . Find the area of the triangle ABE.



7. i) According to the data in the figure, name two triangles which are equal in area.  
 ii) If the area of the parallelogram ABFE is  $120\text{m}^2$ , find the area of the triangle ABC.



8. In the quadrilateral PQRS,  $PQ \parallel SR$ . PR and SQ intersect at O.  
 i. Name a triangle which is equal in area to the area of the triangle SRQ.  
 ii. Name a triangle which is equal in area to the area of the triangle ORQ.



9. Area of the parallelogram ABEC is  $ah$  square units. Determine the area of triangle ACD + the area of triangle DEB.

