8) Areas of Plane Figures Between Parallel Lines
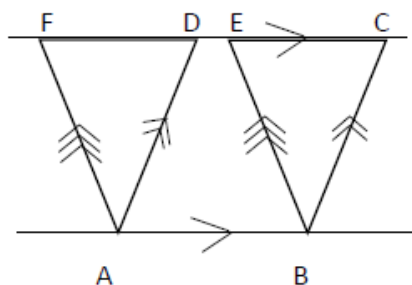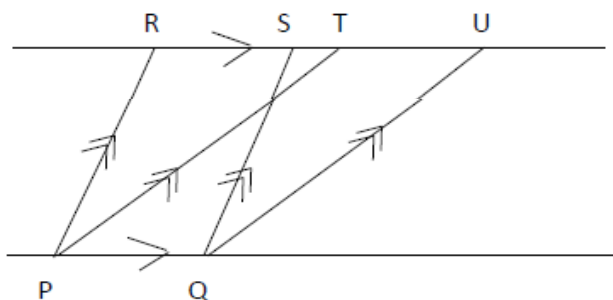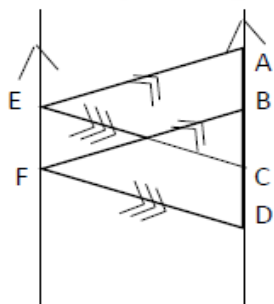
Part I

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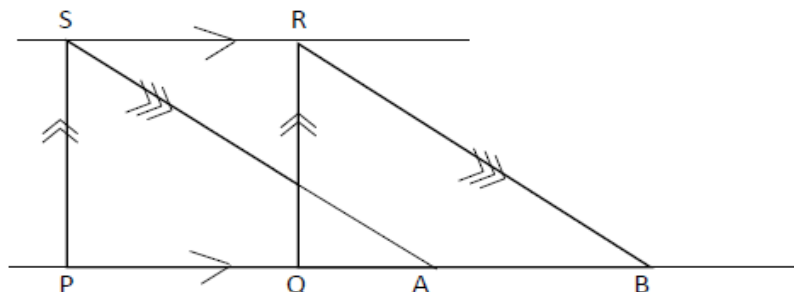

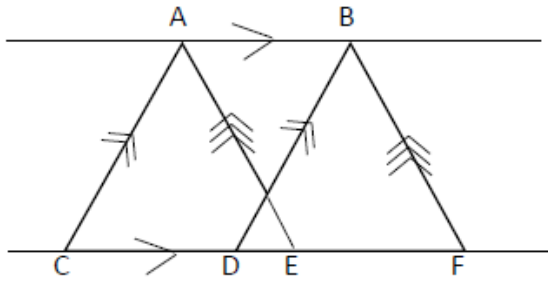2. Area of the parallelogram PQSR is 72cm² and PQ=6cm. Find the perpendicular distance between PQ and TU parallel lines.

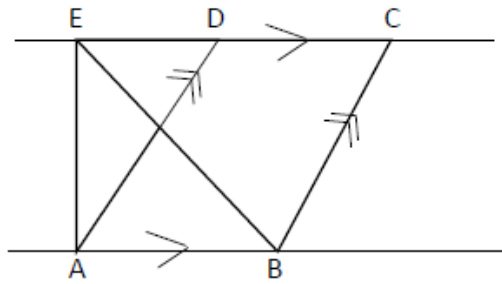3. Area of the parallelogram ABFE is 120cm². By giving reasons find the area of the parallelogram CDFE.

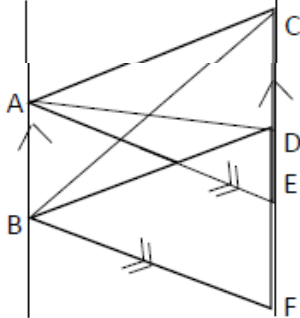4. In the diagram PQRS is a rectangle. PQ=10cm and PS=8cm. By giving reasons find the area of the parallelogram ABRS.

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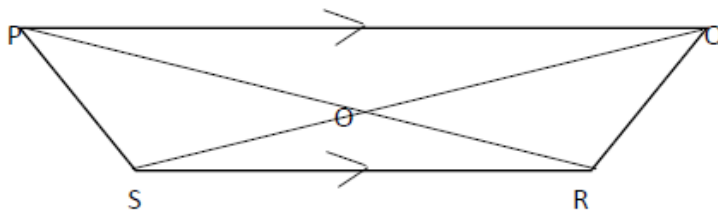

6. Area of the parallelogram ABCD is 120m². Find the area of the triangle ABE.

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 120m², find the area of the triangle ABC.

8. In the quadrilateral PQRS, PQ//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.