



Areas of Parallelograms and Triangles Ex 15.1 Q1

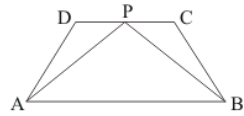
Answer :

GIVEN: Here in the question figure 1 to 6 are shown.

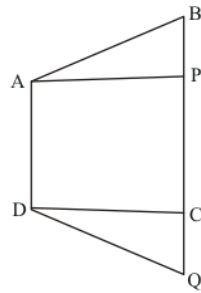
To Find :

- (1) The figures which lie on the same base and between the same parallels.
- (2) Write the common base and parallels.

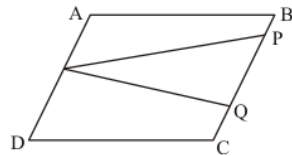
As we know that 'Two geometric figures are said to be on the same base and between the same parallels, if they have a common side(base) and the vertices (or vertex) opposite to the common base of each figure lie on a line parallel to the base.'



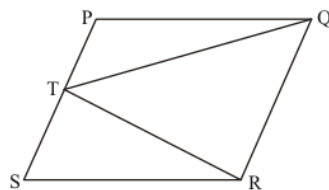
- (1) $\triangle APB$ and trapezium ABCD are on the same base CD and between the same parallels AB and CD.
- (2) Parallelograms ABCD and APQD are on the same base AD and between the same parallels AD and BQ.



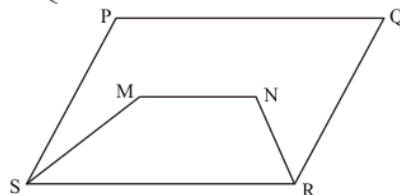
- (3) Parallelogram ABCD and $\triangle PQR$ are between the same parallels AD and BC, but they are not on the same base AD.



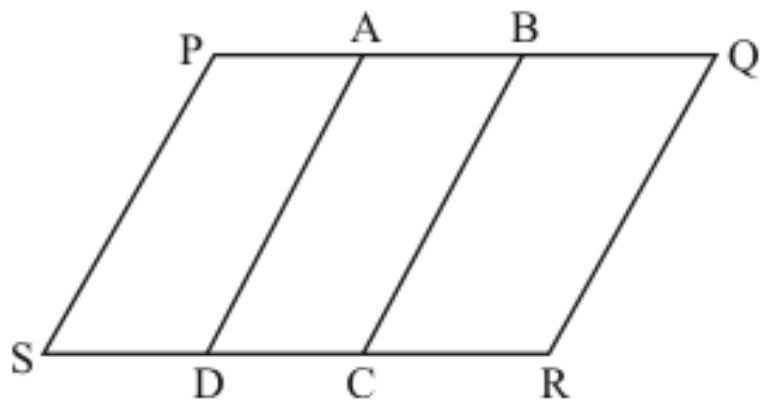
- (4) Parallelogram ABCD and $\triangle PQR$ are between the same parallels AD and BC, but they are not on the same base AD.



- (5) $\triangle QRT$ and Parallelogram PQRS are on the same base QR and between the same parallels PS and QR.



- (6) Parallelogram PQRS, AQRD, and BCQR are between the same parallels. Also Parallelogram PQRS, BPSC and APSD are between the same parallels.



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