

ACTIVITY 7- QUADRILATERAL

1. **What we have to do?**

To prove mid point theorem for a triangle, using paper cutting and pasting.

2. **What is required?**

Coloured paper, a pair of scissors, adhesive.

3. **What do you need to know?**

Two lines are parallel if for a transversal cutting them, the corresponding angles are equal.

4. **How will you proceed?**

- From a sheet of paper, cut a triangle ABC.
- Locate the mid points P and Q of sides AB and AC respectively by paper folding.
- Join points P and Q by folding and making a crease PQ.
- Cut $\triangle APQ$. Superimpose $\triangle APQ$ over $\triangle PQC$ so that QP falls along CB

5. **What have you observed?**

Angle AQP covers angle _____ exactly

These are the _____ angles made on PQ and BC by AC

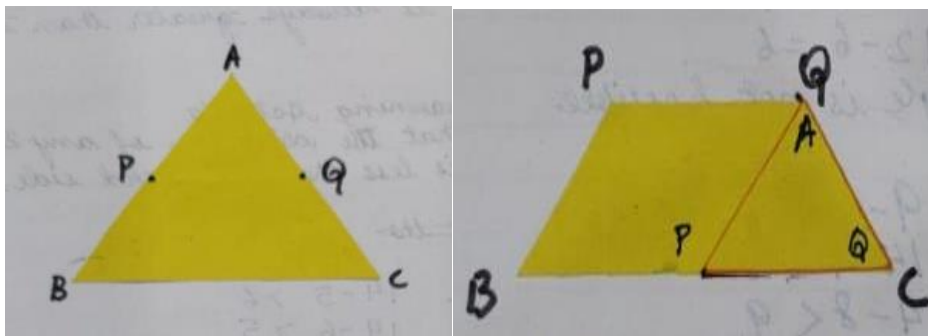
Therefore, PQ is parallel to _____

6. **What have you learnt?**

7. **What would you be interested in doing?**

Verify the same for different types of triangles -obtuse and right angle triangles

Is mid point theorem applicable to scalene triangle also?



Real life application :- To design video games, finding the halfway between places