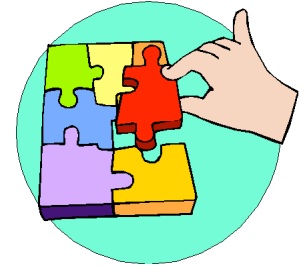


Activity



CONSTRUCTING MEDIANS & ALTITUDES USING PATTY PAPER

Medians

Purpose: To find the medians of any triangle

Materials: patty paper, ruler, pencil

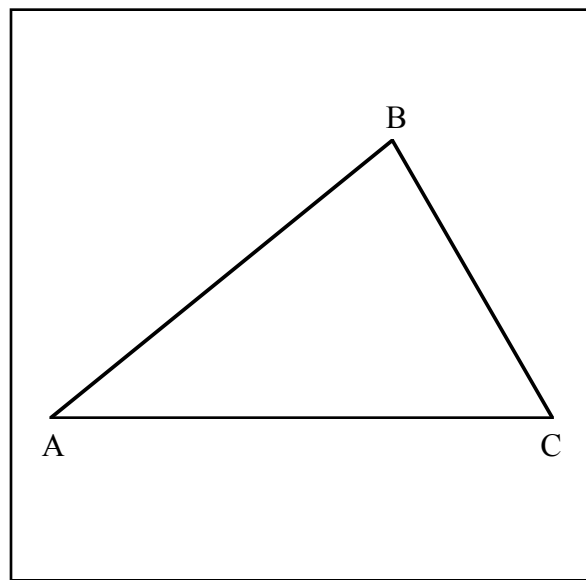
Activity: Draw a large triangle on the patty paper (it does not matter what type).

Take the patty paper in your hand so that \overline{AC} is between your thumbs. Fold the paper so that point A is right on top of point C and crease. Open the patty paper and make a point where the crease intersects \overline{AC} . Name the point M. Connect points B and M.

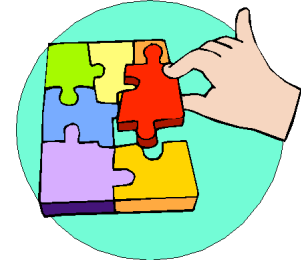
\overline{BM} is a median.

Now repeat the process for \overline{AB} and \overline{BC} . Name the new points N and P, respectively. Connect points C and N; connect points A and P.

If done accurately, all three medians should intersect in one point called the centroid.



Altitudes



Purpose: To find the altitudes of any triangle

Material: patty paper, ruler, pencil

Activity: Draw a large triangle on the patty paper (it does not matter what type). Take the patty paper in your hand so that \overline{AC} is between your thumbs. Take point C and fold the paper such that point C still lies on \overline{AC} and the fold goes through point B. Crease the paper. The crease should go through point B and \overline{AC} . Where the crease goes through \overline{AC} , name the point of intersection R. Connect points B and R. \overline{BR} is an altitude of the triangle. Now follow the same procedure for \overline{AB} and \overline{BC} . Label the points of intersection S and T, respectively. Connect points C and S, and then connect points A and T. If done accurately, all three altitudes should intersect in one point called the orthocenter.

