

Investigating the medians of a triangle: create CTR1





Now select, grab and drag the vertices of the triangle and investigate the results by answering the following questions.

- 1) What conclusion can you draw about the intersection of the medians?
- 2) When is the common point of intersection in the exterior of the triangle?
- 3) When is the common point of intersection in the interior of the triangle?
- 4) Is the common point of intersection ever on a side of the triangle?
- 5) The common point of intersection is called the centroid. Why do you think that this is the name of this point?
- 6) Locate the point of intersection of the medians and label it O. Hide \overline{BN} .





- 7) What do you think would be true of $\frac{BO}{ON}$?
- 8) Write a statement regarding the point of intersection of the medians of a triangle and the ratio of the segments created by the intersection.