

Finding the Centroid

1. Use a ruler to draw a **large** scalene triangle ABC on your card stock.
2. Find and mark the midpoint of each side of the triangle.
3. Label the midpoints of each side X, Y, and Z.
4. Draw the three medians of the triangle (midpoint to vertex).
5. Label the centroid of the triangle (intersection of the medians) as point P.
6. Cut out your triangle. Show that it balances on the centroid.
7. Come up with the Centroid Theorem → Pick ONE median:
 - Measure the total length of the median.
 - Measure the distance from the vertex to the centroid.
 - Measure the distance from the midpoint to the centroid.
 - Compare the measurements. How does the centroid divide the median of the triangle? (if necessary, repeat for the other medians to help find the correct ratio)
8. **On the back of your triangle write your name and the centroid theorem in 2 different ways:**
 - **The centroid divides the median in a ratio of _____**
 - **The distance from the vertex to the centroid is _____ of the total median length.**
9. **Turn your triangle in to the box then complete the TB p329-330 #1-7, 12-15, 27, 29-32 in your notes**