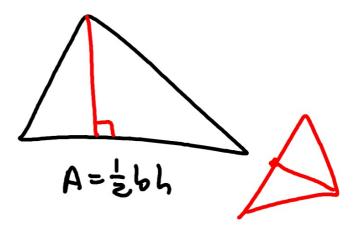
Geometry 5.2 Construct median of a triangle Identify and use triangle medians Identify and use triangle altitudes

perpendicular bisector angle bisector median mp to pp worked altitude centroid P.O.C. malians orthocenter P.O.C. autitudes

activity: little book constructions

cardboard centroids

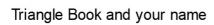


5.1 Point of concurrency (POC)

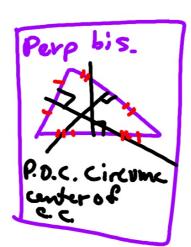
POC:

Angle bisectors (incenter)
Center of inscribed circle
Equidistant from sides (perp)

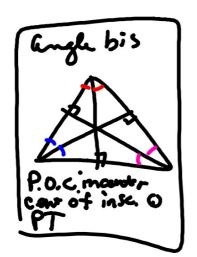
Perp bisectors (circumcenter) Center of circumscribed circle Equidistant from vertices

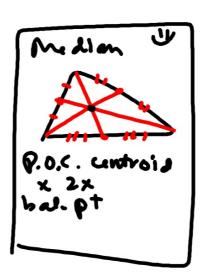


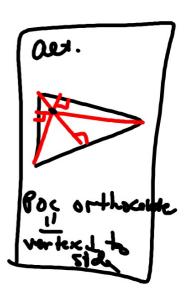
- (inside pages)
 ·perpendicular bisector
 ·angle bisector
- ·median
- ·altitude

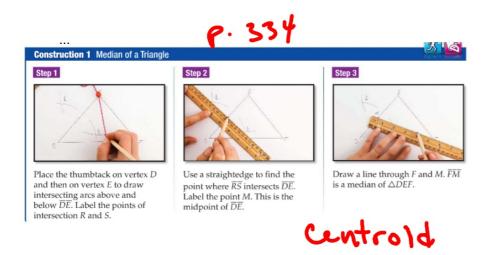










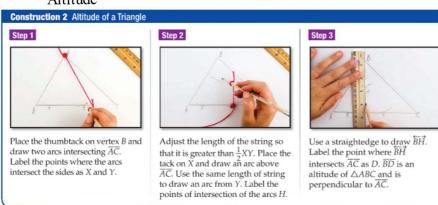


Triangle DEF

Find the midpoint of a side Connect by folding: midpoint and opposite angle.

centroid

Altitude



Triangle ABC

Fold a side (through a vertex) so that segments line up.

orthocenter

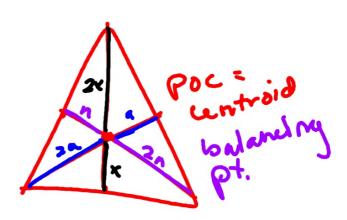
Triangle centroid activity

Use a ruler and protractor (if necessary) to draw a triangle on a piece of cardboard.

The triangle should be acute. Make it as large as possible.

(Each side of the triangle should be between 4 and 6 inches in length.) Cut out the triangle

Measure and mark the midpoint of each side. Be as precise as possible.(mm)



Draw the median from each angle. The point of concurrency is the centroid.

POC Medians (Centroid) Balancing point Divides into x, 2x

