

## **Centroid Theorem:**

- \* The centroid of a triangle is located twothirds of the distance from a vertex to the midpoint of the side opposite the vertex on a median.
- \* See Theorem 5.7 on page 240

 Points U, V, and W are the midpoints of segments YZ, ZX, and XY, respectively. Find a, b, and c. action S centroid 36+2=17.4 51 (5c+15.2) 6= 2 ( Set/5. 2) 45.6= 100 + 30.4

## Altitude of a Triangle: \* A segment from a vertex of the triangle, to the side opposite it, and it must be perpendicular to the side. \* Every triangle has 3 altitudes, one from each of the vertices. Orthocenter: \* The point of concurrency of the altitudes.

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Types of lines	Concurrent at	Special Feature
Perpendicular bisector	Circumcenter	cincumerator is equilistant from the ventices of the triangle.
angle bisrctor	incenter	incenter 1 S equilistant From the sides of the triangle
Median	centroid	Distance from vertex to the centroid is 3 of the entire length of the median.
altitude	ontherenter	