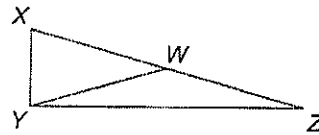


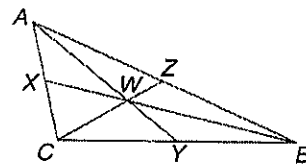
Median – A segment connecting the vertex of a triangle to the **midpoint** of the opposite side.

Centroid – Point where all medians of a triangle intersect. It is also the **“balancing point”** for the triangle. Each median is cut into two segments with a **ratio of 2:1** (the longer segment is between the vertex & the centroid).

1. In $\triangle XYZ$, \overline{YW} is a median. What is XW if $XZ = 17$?

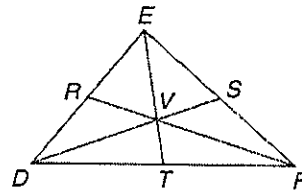


2. In $\triangle ABC$, \overline{BX} , \overline{CZ} , and \overline{AY} are medians. If $AX = 3x - 9$, $XC = 2x - 4$, and $ZB = 2x + 1$, what is AZ ?



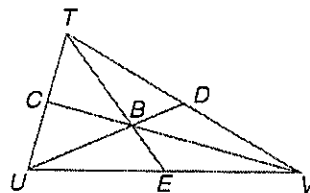
In $\triangle DEF$, \overline{DS} , \overline{FR} , and \overline{ET} are medians.

3. Find EV if $VT = 5$.
 4. If $FR = 20.1$, what is the measure of \overline{VR} ?



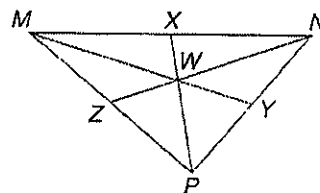
In $\triangle TUV$, \overline{TE} , \overline{UD} , and \overline{VC} are medians.

5. Find EV if $UV = 24$.
 6. If $TC = 8$, find TU .
 7. What is TD if $TV = 29$?



In $\triangle MNP$, \overline{MY} , \overline{PX} , and \overline{NZ} are medians.

8. Find the measure of \overline{WY} if $MW = 22$.
 9. What is NW if $ZW = 10$?
 10. If $PW = 13$, what is WX ?



In $\triangle FGH$, \overline{FJ} , \overline{HI} , and \overline{GK} are medians.

11. What is XK if $GK = 13.5$?
 12. If $FX = 10.6$, what is the measure of \overline{XJ} ?
 13. Find HX if $HI = 9$.

