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## Definitions:

Midpoint: A point on a line segment which is equidistant from each endpoint. Median: Connects any vertex of a triangle to the midpoint on the opposite side.

Altitude: A line drawn from any vertex of a triangle perpendicular to the opposite side.

## *Median Vocabulary Must Knows:*

- The point of intersection for the 3 segments is called the _
- This point is the $\qquad$ of the triangle.
- This point splits the medians of a triangle into two smaller segments. These segments are always in a $\qquad$ ratio. The point is always closer to the side of the triangle (and further away from the angle).


## Practice Problems

1. In the figure pictured, $D F=4, B F=16$, and $A F=30$. Find the lengths of:
a. $C F=$
b. $E F=$
c. $G F=$

2. In the figure at the right, $E F=x+3$ and $B F=5 x-9$. Find the length of $E F$.

3. In the figure at the right, $D C=15$. Find $D F$ and $C F$.

