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 _

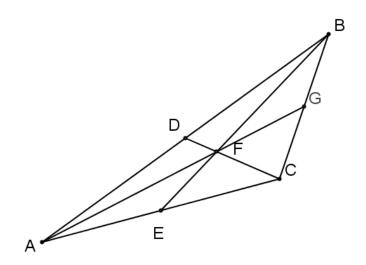
- This point is the ______of the triangle.
- This point splits the medians of a triangle into two smaller segments. These segments are always in a ______ ratio. The point is always closer to the side of the triangle (and further away from the angle).

Practice Problems

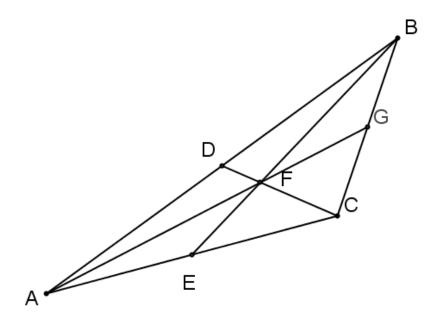
1. In the figure pictured, DF = 4, BF = 16, and AF = 30. Find the lengths of:

$$b$$
. $EF=$

$$c.$$
 $GF=$



2. In the figure at the right, EF = x + 3 and BF = 5x - 9. Find the length of EF.



3. In the figure at the right, DC = 15. Find DF and CF.

