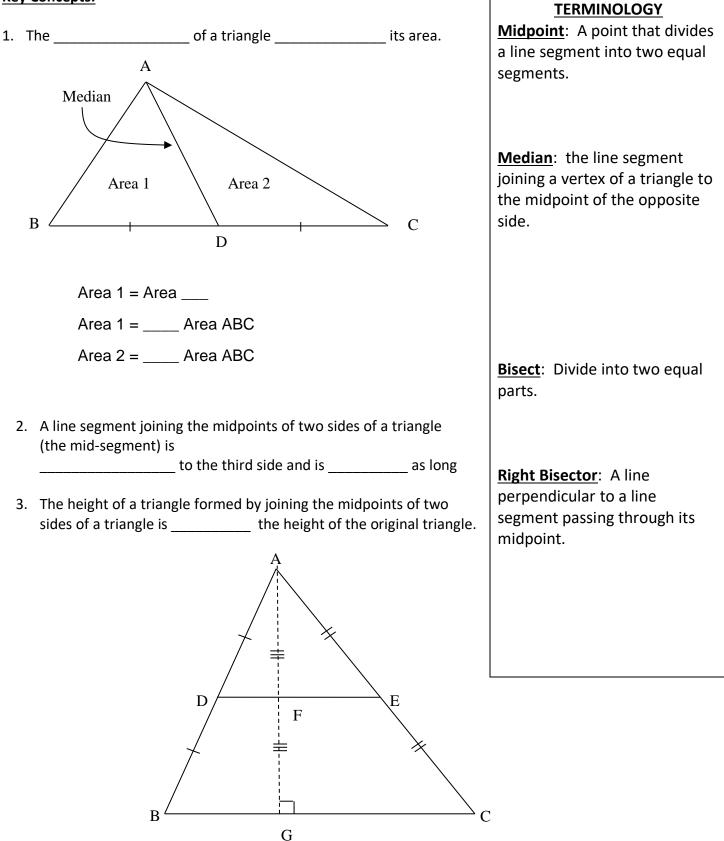
MIDPOINTS AND MEDIANS IN TRIANGLES

Key Concepts:



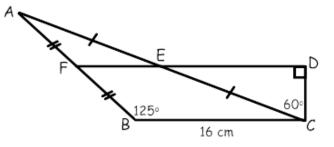
4. The area of the triangle formed by joining the midpoints of two sides of a triangle is the area of the original triangle.

** NOTE: Your homework may ask you to prove something is not true by showing a COUNTER – EXAMPLE. This just means draw an example where you show what they are saying is not true.

EXAMPLES:

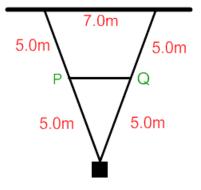
1. Use the diagram of $\triangle ABC$ with mid-segment DE, on previous page. Given |BC| = 8 cm, |AG|=12 cm, determine the area of $\triangle ABC$ and $\triangle ADE$.

- 2. Solve for:
- a) angle FAE (provide reasoning)



b) Length of EF

- c) What type of quadrilateral is formed from joining the midpoints of quadrilateral BCEF?
- 3. Calculate the length of the cross-brace PQ in this bridge support.



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