Medians, Altitudes and Midsegments

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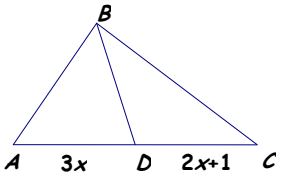
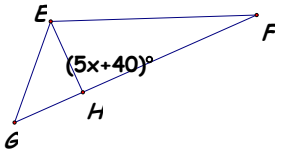
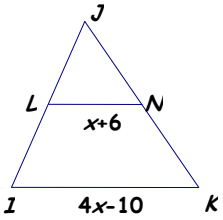
1. $\overline{BD}$ is a median. Find the length of DC.



2. $\overline{EH}$ is an altitude. Find the value of x.



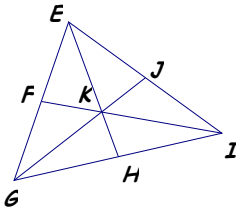
3. $\overline{LN}$ is a midsegment. Find the value of x.



4. The intersection of all medians is called the _____.

5. The intersection of all altitudes is called the _____.

Use the figure below. (6-8)



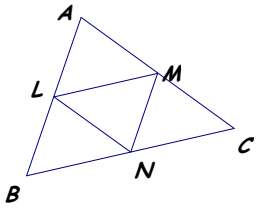
K is the centroid of $\triangle EGI$

6. If $EK = 14$, what is the length of KH?

7. If $KJ = 11$, what is the length of GK?

8. If $FI = 45$, what is the length of KI?

Use the figure below. (9-11)



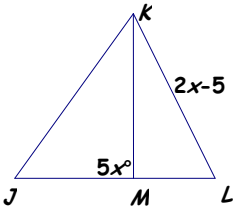
In $\triangle ABC$ ***, L, M, and N are midpoints.***

9. $\overline{LM} \parallel$ ____

10. If $AM = 4$, then find the length of MC.

11. If $AB = 10$, then find the length of LB.

12. $\overline{KM}$ is an altitude. Find the length of KL.



A. 18 B. 31
C. 62 D. 90

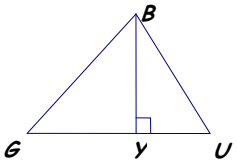
13. The centroid is the intersection of all ____.

A. Perpendicular bisectors
B. Altitudes
C. Angle bisectors
D. Medians

14. Which type of triangle has the orthocenter **outside** the triangle?

A. Obtuse B. Right
C. Acute D. Equilateral

15. In $\triangle BUG$, $\overline{BY}$ represents what type of special line segment?



A. Angle bisector
B. Altitude
C. Perpendicular bisector
D. Median