

Name _____

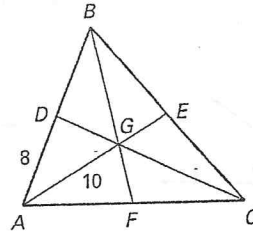
Date _____

MEDIAN = VERTEX → MIDPT
CENTROID = WHERE MEDIANS MEET

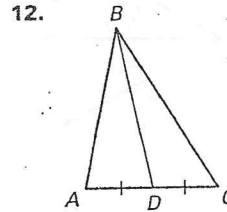
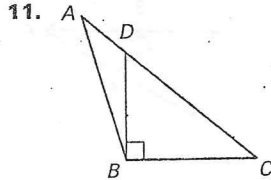
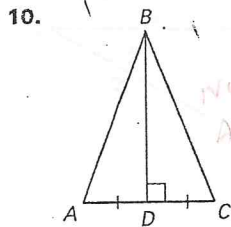
LESSON 5.4 Practice
For use with pages 318-327

G is the centroid of $\triangle ABC$, $AD = 8$, $AG = 10$, and $CD = 18$. Find the length of the segment.

1. \overline{BD}
2. \overline{AB}
3. \overline{EG}
4. \overline{AE}
5. \overline{CG}
6. \overline{DG}

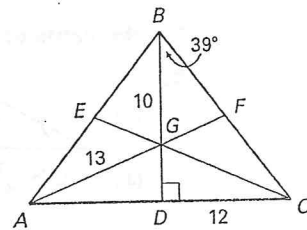


Is \overline{BD} a perpendicular bisector of $\triangle ABC$? Is \overline{BD} a median? an altitude?



Find the measurements.

13. Given that $AB = BC$, find AD and $m\angle ABC$.
14. Given that G is the centroid of $\triangle ABC$, find FG and BD .



Copy and complete the statement for $\triangle HJK$ with medians \overline{HN} , \overline{JL} , and \overline{KM} , and centroid P .

15. $PN = \underline{\quad} \overline{HN}$
16. $PL = \underline{\quad} \overline{JP}$
17. $KP = \underline{\quad} \overline{KM}$

Point G is the centroid of $\triangle ABC$. Use the given information to find the value of x .

18. $CG = 3x + 7$ and $CE = 6x$
19. $FG = x + 8$ and $AF = 9x - 6$
20. $BG = 5x - 1$ and $DG = 4x - 5$

