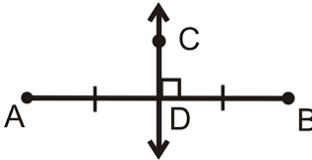
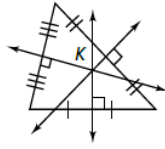
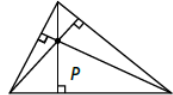
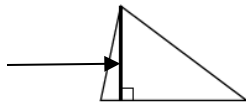
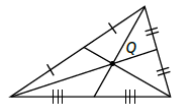
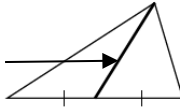
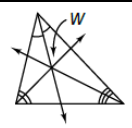


Math 2 Unit 4 Worksheet 4
Medians & Altitudes

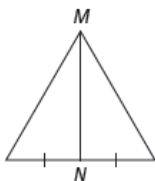
Name: _____
 Date: _____ Per: _____

[1-10] Complete the below chart.

1.		\overline{CD} is a _____ of \overline{AB}
2.		Point K is the _____ of the triangle.
3.		Point P is the _____ of the triangle.
4.		The segment shown is an _____.
5.		Point Q is the _____ of the triangle.
6.		The segment shown is a _____.
7.		Point W is the _____ of the triangle.
8.	Distance Formula	
9.	Midpoint Formula	
10.	Slope Formula	

[11-13] Is \overline{MN} a *median*, an *altitude*, or *neither*? Explain.

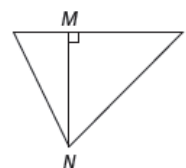
11. _____



12. _____

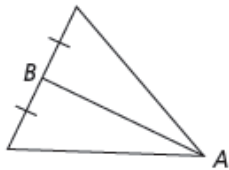


13. _____

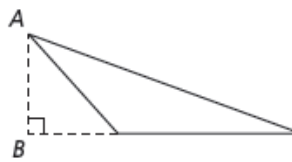


[14-17] Is \overline{AB} a *median*, an *altitude*, or *neither*? Explain.

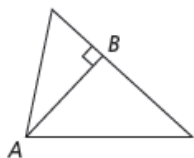
14. _____



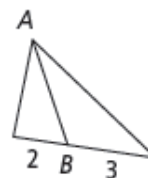
15. _____



16. _____



17. _____



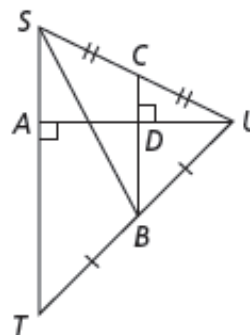
[18-21] Name each Segment.

18. A median in $\triangle STU$ _____

19. An altitude in $\triangle STU$ _____

20. A median in $\triangle SBU$ _____

21. An altitude in $\triangle CBU$ _____



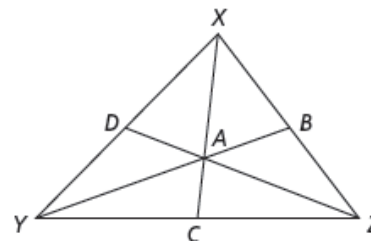
[22-24] In $\triangle XYZ$, A is the centroid.

22. If $DZ = 12$, find ZA , AD , and describe the relationship between ZA and DZ .

$ZA =$ _____

$AD =$ _____

$ZA =$ _____ of DZ



23. If $AB = 6$, find BY and AY .

$BY =$ _____

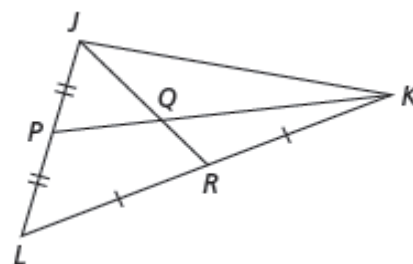
$AY =$ _____

24. If $AC = 3$, find CX and AX .

$CX =$ _____

$AX =$ _____

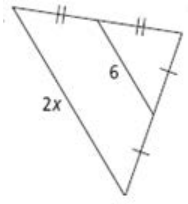
25. Q is the centroid of $\triangle JKL$. $PK = 9x + 21y$. Write an expression to represent PQ and QK .



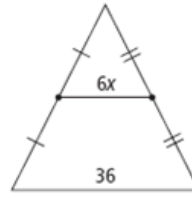
Review

[26-30] Find the value of x .

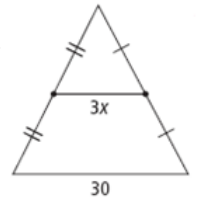
26. $x =$ _____



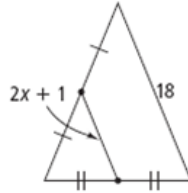
27. $x =$ _____



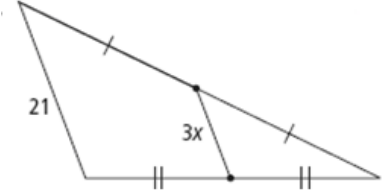
28. $x =$ _____



29. $x =$ _____



30. $x =$ _____

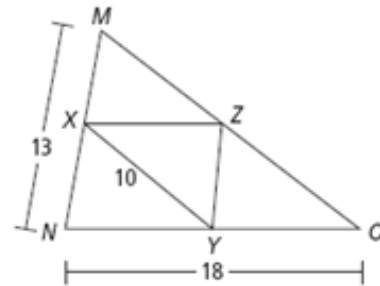


[31-33] X is the midpoint of \overline{MN} . Y is the midpoint of \overline{ON} . Z is the midpoint of \overline{MO}

31. Find XZ .

32. If $XY = 10$, find MO .

33. If $m\angle M$ is 64° , find $m\angle XYZ$.



[34-35] Use the diagram to answer the questions.

34. What is the distance across the lake?

35. Is it a shorter distance from A to B or from B to C ? Explain.

