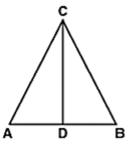
1.

GIVEN: AABC, CD L AB

D midpoint of AB.

PROVE: AACD = ABCD

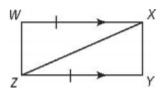


Statements	Reasons

2.

Given: $\overline{WX} \parallel \overline{YZ}, \overline{WX} \cong \overline{YZ}$

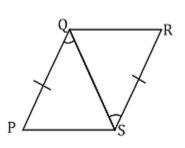
Prove: $\Delta WXZ \cong \Delta YZX$



Statements	Reasons

3-6: Can the two triangles be proven congruent? Circle YES or NO. If so, tell which postulate or theorem you used and finish the congruency statement.

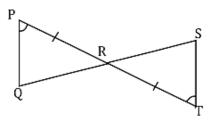
3.



Congruent? Circle YES or NO

$$\Delta PQS \cong \Delta_{\underline{}}$$

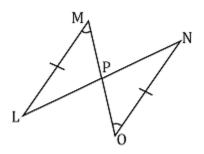
by _____



Congruent? Circle YES or NO

$$\Delta QPR \cong \Delta_{\underline{}}$$

5.

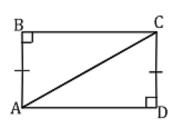


Congruent? Circle YES or NO

 $\Delta MPL \cong \Delta$ _____

by _____

6.



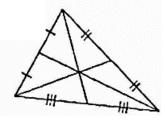
Congruent? Circle YES or NO

 $\Delta ABC \cong \Delta_{\underline{}}$

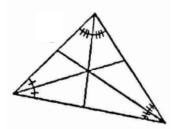
by _____

7-10: Match the picture with the corresponding point of concurrency.

_____7.



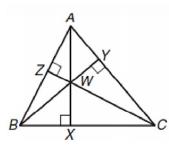
_____ 8.



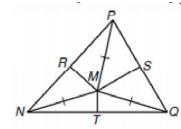
A. Centroid

B. Incenter

9.



_____10.

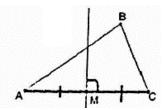


C. Circumcenter

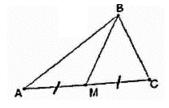
D. Orthocenter

11-14: Match the picture with the corresponding segments.

_____11.



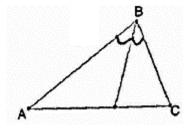
_____12.



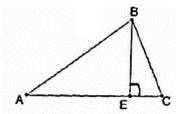
E. Median

F. Angle Bisector

_____13.



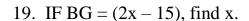
_____ 14.

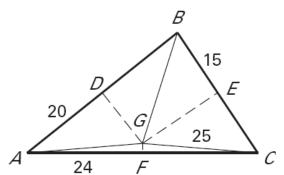


G. Perpendicular Bisector

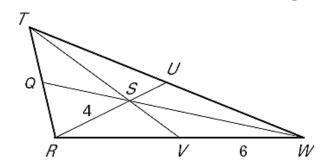
H. Altitude

In the diagram, the perpendicular bisectors (shown with dashed segments) of $\triangle ABC$ meet at point G--the circumcenter. and are shown dashed. Find the indicated measure.





Point S is the <u>centroid</u> of $\triangle RTW$, RS = 4, VW = 6, and TV = 9. Find the length of each segment.

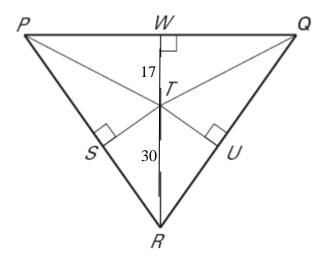


Point T is the <u>incenter</u> of $\triangle PQR$.

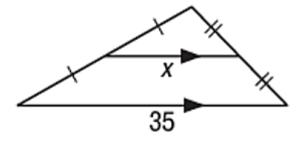
26. If Point T is the *incenter*, then Point T is the point of concurrency of

28. If TU = (2x - 3), find x.

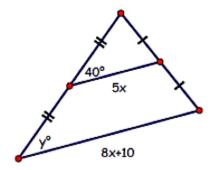
- 29. If $m\angle PRT = 34^{\circ}$, then $m\angle QRT =$
- 30. If $m\angle RPO = 52^{\circ}$, then $m\angle RPT =$



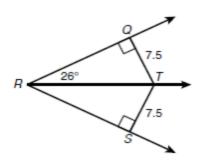
31. Solve for each variable.



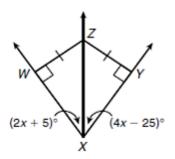
33. Solve for x and y.



34. Find the m<QRS.



35. Find the m<WXZ.



32. Use the diagram below to find FG.

