

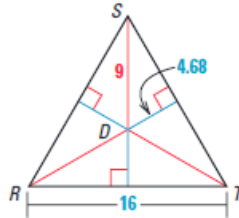
5-2 Worksheet

Complete each statement with *always, sometimes, or never*.

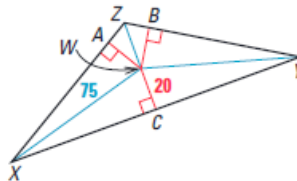
- 1) A perpendicular bisector of a triangle _____ passes through the midpoint of a side of the triangle.
- 2) The angle bisectors of a triangle _____ intersect at a single point.
- 3) The angle bisectors of a triangle _____ meet at a point outside the triangle.
- 4) The circumcenter of a triangle _____ lies outside the triangle.

In each case, find the indicated measure.

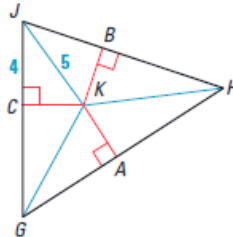
- 5) The perpendicular bisectors of $\triangle RST$ meet at point D . Find DR .



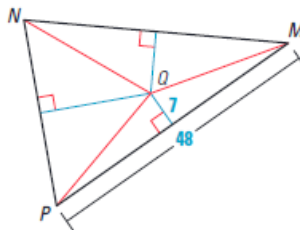
- 6) The angle bisectors of $\triangle XYZ$ meet at point W . Find WB .



- 7) The angle bisectors of $\triangle GHJ$ meet at point K . Find KB .

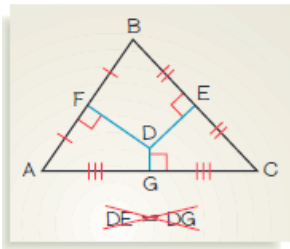


- 8) The perpendicular bisectors of $\triangle MNP$ meet at point Q . Find QN .



Explain why the student's conclusion is *false*. Then state a correct conclusion that can be deduced from the diagram.

9)



10)

