Name: _____   Date:_____   Per: _____
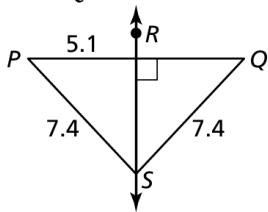
Directions: Answer the questions below. **This will be graded as if it were a quiz/test, so SHOW YOUR WORK!!!**
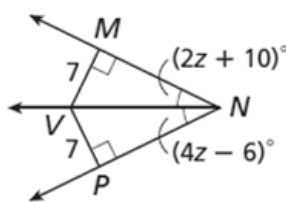You may use your book, your notes, and a calculator.

1. What is the **circumcenter** of a triangle? _____

2. The **circumcenter** is always located:

    a. _____ an acute triangle

    b. _____ a right triangle

    c. _____ an obtuse triangle

3. What is the **incenter** of a triangle? _____

4. The **incenter** is always located _____ the triangle.

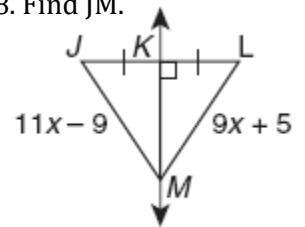5. What is the **midsegment** of a triangle? _____

6. Find RQ.   7. Find m∠MNP.   8. Find JM.

        RQ = _____   m∠MNP = _____   JM = _____
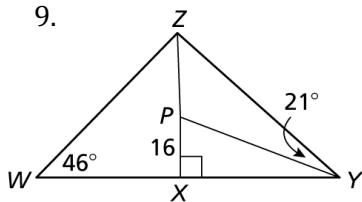
$\overline{PZ}$ and $\overline{PY}$ are <u>angle bisectors</u> of ΔWYZ. Find the following.
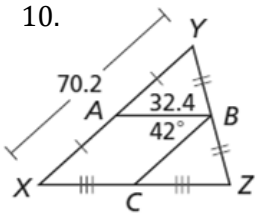   9.   a. $m\angle WZX$ = _____   b. the shortest distance from P to $\overline{WY}$ = _____

Find the following.

10.

a. XZ = _____

b. BC = _____

c. $m\angle YAB$ = _____

70.2

A 32.4 B
   42°

X C Z

Y

11. Find the **circumcenter** of triangle DOG with points D(6, 3), O(-4, -5), G(6, -5)