

Take Home Drawing Exercise
September 15, 2008

Name _____

Tonight you should draw the following sketch by hand. Have a ruler and a protractor handy so that your sketch is accurate and precise.

- Draw right triangle ABC that fills most of the page. **All three sides should have different lengths.**
- Measure the length of each side of the triangle. Label each length on your drawing.
- Measure carefully to find the midpoints of each side, and label the midpoints M , N , and P .
- Draw \overline{MN} , \overline{MP} , and \overline{PN} . You should now see four smaller triangles.
- Lightly color each triangle a different color. You may leave one of the triangles white if you like.
- Measure the lengths of each side of the smaller triangles. Label each length on your drawing.
- Calculate the area and perimeter of each small triangle AND the larger triangle. Write down these numbers on your drawing.
- What do you notice? Write a down your observations in complete sentences.