2023/24 Academic Year **Mathematics** Worksheet **Three** for Grade **8** **Section** _____

Student's Name _____ Date _____

I. Answer the following questions.

1. If two triangles are similar with ratio of areas $\frac{1}{4}$, then what is the ratio of their corresponding sides?

2. The sides of a polygon have lengths 6cm, 7cm, 8cm, 11cm and 18cm. The perimeter of a similar polygons is 75cm.what is the length of the larger polygon?_____

3. If two triangles are similar and altitude of one is twice the other, then the ratio of their areas is _____.

4. If ΔABC is similar to ΔDEF such that BC=3cm, EF=4cm and area of ΔABC = 54cm^2, then the area of ΔDEF is:_____.

5. One side of a right triangle is 6cmand its largest side is 10cm. What is the length of the third side?

   _____

6. The angles of a triangle are in the ratio of 2:5:8.The size of the largest angle is _____.

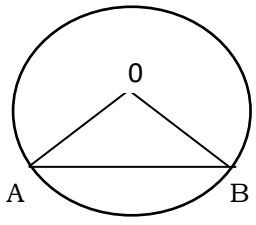
7. The part of a circle which is greater than half of a circle is _____.

8. A rectangle has its sides 5cm and 12cm long. What is the length of its diagonal?

   _____

II. Workout--Show Every Step Clearly.

9. In the figure given below, m(arc AB) = 80^0, what is the measure of (< B)?



10. How long is the altitude of an equilateral triangle if a side of a triangle 4cm?

P.S _____