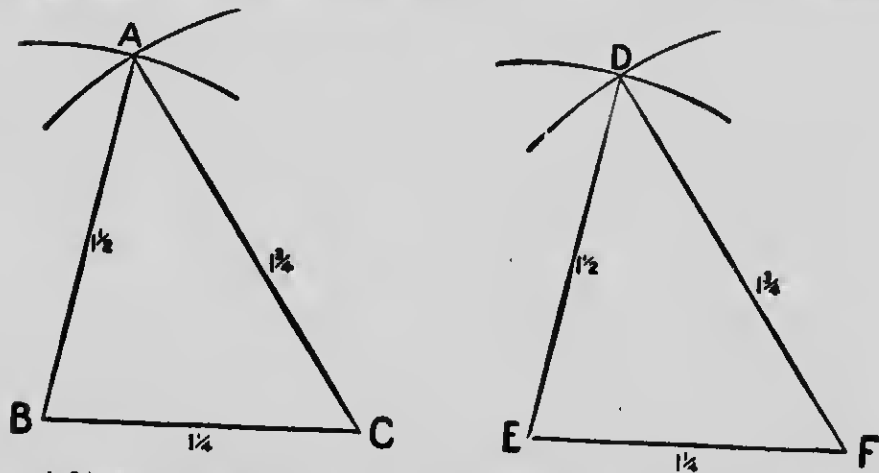


CHAPTER III.

Equality of Triangles.

1. Construct two triangles, each with sides of lengths $1\frac{1}{4}$, $1\frac{1}{2}$ and $1\frac{3}{4}$ inches, as indicated in the adjacent figures.



Adjust the bevel, or the protractor, to the angle **A**, and also to the angle **D**, and carefully compare the magnitudes of these angles. In like manner compare the magnitudes of the angles **B** and **E**, and also the magnitudes of the angles **C** and **F**.

Next cut both triangles from the paper, and place one triangle upon the other so that the corresponding angular points coincide. From this superposition what conclusion do you draw as to the areas of the triangles?

Repeat the same construction, measurement, and superposition with two triangles whose sides are 4, 2 and $4\frac{1}{2}$ inches; with two whose sides are 50, 80 and 100 millimetres; etc.