## **Basic Compass and Ruler Constructions 1**

When doing compass and ruler constructions, we are using two tools:

- a compass, and
- a straightedge (ruler).

With a *compass*, you draw circles. That means you can find <u>all the points that are at a specified</u> <u>distance from some point</u> (the circle's center point). Study carefully the following constructions, and pay attention how the compass is used!

*A straightedge* is a ruler without measurement units (such as cm or in) on it. It is simply used to draw straight lines. You can use your normal ruler as long as you don't pay attention to the measurement units on it. In the exercises of this lesson, use only a compass and a straightedge.



1. Copy the line segment.



2. Draw a line segment that is as long as these two line segments together.



Sample worksheet from www.mathmammoth.com



3. Draw any isosceles triangle.

4. Draw an isosceles triangle with two sides this long:



5. Draw an equilateral triangle using this line segment as the base.



6. Draw any equilateral triangle. This means you can choose how long the sides are.