**TREE MEASUREMENT NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **PERIOD\_\_\_\_\_**

1. In order to assess a tract of timber, foresters conduct a survey, or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, to estimate its quantity by species, products, size, quality, or other characteristics.

2. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ is a tool used to measure both tree diameter (girth) and height.

3. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ is used to get a more accurate measurement of tree diameter.

4. In order to measure the diameter of a tree, the forester takes the measurement at “dbh”, which stands for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. “dbh” is \_\_\_\_\_\_\_\_\_\_\_\_ feet above the ground.

6. A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is another instrument used to measure tree height.

7. In order to measure the height of a tree, the forester must stand a certain distance from the tree. Typically, the forester will walk one “chain” from the tree, which is \_\_\_\_ \_\_\_\_\_\_\_\_ in length.

8. Once tree height is known, the forester can determine how many “logs” are in the tree. A “log” is defined as a

 \_\_\_\_\_\_\_\_\_\_\_\_ long section of a tree.

9. After determining the diameter and height of a tree, the forester can use a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to determine the volume of wood in the tree.

10. The term used to denote the volume of wood in a tree is \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_, and is a piece of wood 12 inches square and 1 inch thick.

11. Another important forestry tool is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_, which is an auger-like instrument with a hollow bit and an extractor. It is used to remove a small cylindrical core from the tree. Foresters determine the age of a tree by counting the growth rings in the core sample.

**VOCABULARY LIST - TREE MEASUREMT**

biltmore stick 66 feet

board foot 16 foot

clinometer 4.5

cruise

diameter at breast height

diameter tape

increment borer

volume table