## **BOARD MEASURE.**

One cubic foot of timber is equal to 12 feet superficial measure, of board, one inch thick; or, 12 feet superficial of boards of one inch thick, divided by 12, gives one foot cubic measure. Therefore, cubic measure multiplied by 12 produces board measure, and board measure divided by 12 produces cubical content.

#### Rule for Measuring Rectangular Boards.

Multiply the length in feet by the width in inches, and divide the product by 12, to find the contents in superficial feet.

# Rule for any Dimension.

Multiply the number of feet in the face of the piece to be measured, by the thickness in inches, and it will give the contents in feet of board measure.

## Rule for Measuring Logs or Round Timber.

Multiply the length, taken in feet, by the square of one fourth of the mean girth, taken in inches, and this product divided by 144 will give the contents in cubic feet.

To find the largest Square Piece of Timber that may be sawed from a Round Stick of Timber, having the Diameter or Circumference of the Small End given.

Rule 1.—Multiply the given diameter by .707106, or, multiply the given circumference by .225079. Or, as the diameter of a circle is equal to the diagonal of the inscribed square.

#### Having the Side of a Square Stick given, to find the Diameter of the Tree from which it was sawn.

Rule.--Square the side and double it, and out of the product extract the square root.

### Rule for finding the Average Square of Timber, the total lengths and total contents being given.

Divide the total contents in feet by the total length in feet; the square root of the quotient will give the side of the square in feet.