

6. The side of an inscribed square, multiplied by 1.4142, equal the diameter of the circumscribing circle.

7. The side of an inscribed square, multiplied by 4.4430, equal the circumference of the circumscribing circle.

8. The side of a square, multiplied by 1.280, equal the diameter of an equal circle.

9. The side of a square, multiplied by 3.5450, equal the circumference of an equal circle.

A VALUABLE TABLE.

The following table will be found exceedingly valuable :

A box 24 inches by 16 inches square, and 28 inches deep, will contain a barrel, (5 bush.) or 10.752 cubic inches.

A box 24 inches by 16 inches square, and 14 inches deep, will contain half a barrel, or 5376 cubic inches.

A box 16 inches by 16.8 inches square, and 8 inches deep, will contain one bushel, or 2,150.4 cubic inches.

A box 12 inches by 11.2 inches square, and 8 inches deep, will contain half a bushel, or 1,075.2 cubic inches.

A box 8 inches by 8.4 inches square, and 8 inches deep, will contain one peck, or 537.6 cubic inches.

A box 8 inches by 8 inches square, and 4.2 inches deep, will contain one gallon, or 268.8 cubic inches.

A box 7 inches by 4 inches square, and 4.8 inches deep, will contain a half a gallon, or 134.4 cubic inches.

A box 4 inches by 4 inches square, and 4.2 inches deep, will contain one quart, or 67.2 cubic inches.