

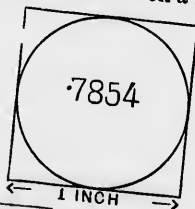
MISCELLANEOUS CALCULATIONS FOR ENGINEERS.

“THE derivation of ‘calculation,’ alludes to that rudimental period of the Science of Numbers, when pebbles or stones (calculi) were used, as now, among savages, they often are to facilitate the practice of counting,” etc.—*Trench on Words.*

The name of decimals with their equivalent fraction:

NAME.	DECIMAL.	FRACTION.
One-tenth,	.1	$\frac{1}{10}$
One-hundredth,	.01	$\frac{1}{100}$
One-thousandth,	.001	$\frac{1}{1000}$
Ten-thousandth,	.0001	$\frac{1}{10000}$
One-hundred-thousandth,	.00001	$\frac{1}{100000}$
One-millionth,	.000001	$\frac{1}{1000000}$
One-eighth=one hundred and twenty-five thousandths		$\frac{1}{8}$
One-quarter=twenty-five hundredths		$\frac{1}{4}$
One-third=thirty-three hundredths		$\frac{1}{3}$
One-half=five-tenths		$\frac{1}{2}$
Seven-sixteenths=five thousand three hundred and seventy-five ten thousandths		$\frac{7}{16}$
Nine-sixteenths=five thousand six hundred and twenty-five ten thousandths		$\frac{9}{16}$
Five-eighths=six hundred and twenty-five thousandths		$\frac{5}{8}$
Three-quarters=seventy-five hundredths		$\frac{3}{4}$

Difference between a square inch and a circular inch:



1	square inch.
.7854	circular inch.
.2146	difference.

NOTE.—Cyphers to the right of a decimal are of no value, as .10 is one-tenth, the same as .1; but cyphers to the left of a decimal reduces its value ten times, as .1, one-tenth; .01, one-hundredth.