

# Displacement Conversion

## Converting Engine Displacement

### Engine Displacement Conversion

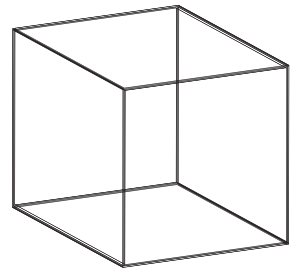
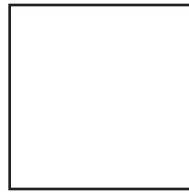
- ✓ Cubic Centimeters (cc's) are standard for motorcycles
- ✓ Cubic Inches is standard for American made car's
- ✓ Liters is standard for import cars.

To convert engine displacement remember three mathematical facts.

First: 2.54 cm = 1 inch

Second:  $2.54^3 = 16.387064 = ((2.54 \times 2.54) \times 2.54)$

Third: 1 liter = 1,000 cubic centimeters.



#### Formulas:

(cubic inches)  $\times$  16.387064 = (cubic centimeters)

(cubic centimeters) / 16.387064 = (cubic inches)

(cubic centimeters) / 1,000 = (liters)

#### Example 1:

If 2.54 centimeters is 1 inch, then  $2.54^3 = 16.387064$  cubic centimeters is 1 cubic inch.

Hence 904 cubic centimeters is  $904 / 16.387064 = 55.16546466163799$  cubic inches.

Since 1,000 cubic centimeters is 1 liter; 904 cubic centimeters is .904 liters.

So a "Ducati 904 Engine" is equivalent to 55 cubic inches or .9 liter.

#### Example 2:

If 1 inch is 2.54 centimeters, then 1 cubic inch is  $2.54^3 = 16.387064$  cubic centimeters.

Hence 308 cubic inches is  $350 \times 16.387064 = 5,047.215711999999$  cubic centimeters.

Since 1,000 cubic centimeters is 1 liter; 5,047.215711999999 cubic centimeters is 5.047215711999999 liters.

So a "Chevy 308 Engine" is equivalent to 5,047 cubic centimeters or 5 liters.

#### Example 3:

If 2.54 centimeters is 1 inch, then  $2.54^3 = 16.387064$  cubic centimeters is 1 cubic inch.

Since 1,000 cubic centimeters is 1 liter; 5.5 liter is 5,500 cubic centimeters.

Hence 5,500 cubic centimeters is  $5,500 / 16.387064 = 335.6305925210276$  cubic inches.

So a "Mercedes SLK55 Roadster 5.5 Liter" is equivalent to 335 cubic inches or 5,500 cubic centimeters.