HANDY FORMULAS

Engine Displacement

Displacement   =   Bore x Bore x Stroke x No. of Cylinders – (Bore & Stroke in inches)

8 Cylinders – Bore x Bore x Stroke x 6.2832 = Cubic Capacity

6 Cylinders – Bore x Bore x Stroke x 4.7124 = Cubic Capacity

4 Cylinders – Bore x Bore x Stroke x 3.1416 = Cubic Capacity

For other numbers of cylinders = (No. of Cylinders x 0.7854

Supercharger Overdrive

Overdrive % =

((Bottom Pulley Tooth Count ÷ Top Pulley Tooth Count) – 1) x 100

(eg. ((54T ÷ 26T) — 100 = 107%

((54 ÷ 26 = 2.07) — 1 = 1.07) x 100 = 107%

Metric Conversion

Cubic Inches = Cubic Centimetres x 0.06102

Kilograms/litre = Pounds per cube x 27.679904593

Cubic Centimetres = Cubic Inches x 16.3870

1 Inch = 25.4 millimetres	1 mm = 0.03938 inches
1 Metre = 3.2808 feet	1 foot = 0.3048 metres = 12 inches
1 kilogram = 2.2046 Pounds	1 pound = .45359 kilograms = 16 ounces
Miles per Hour = 1.61 kilometres per Hour	Kilometres per Hour = 0.62 Miles per Hour
1 Litre = 1000cc	1 US Gallon = 3.785 litres
1 Imp Gallon = 4.546 litres	

Race Formulas

One Quarter of a Mile = 402.33 metres = 1320 feet

¼ mile ET = ⅛ mile ET x 1.57

1000ft ET = ¼ mile ET ÷1.2

⅛ mile ET = ¼ mile ET ÷ 1.57

RPM = (mph x gear ratio x 336) ÷ tyre diameter

MPH = (rpm x tyre diameter) ÷ (gear ratio x 336)

Gear Ratio = (rpm x tyre diameter) ÷ (mph x 336)

Tyre Diameter = (mph x gear ratio x 336) ÷ rpm