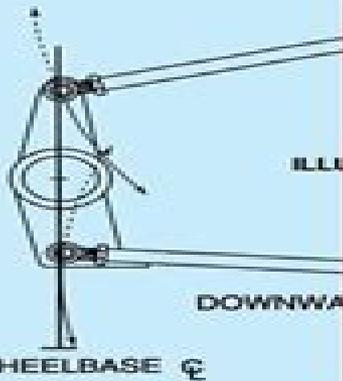


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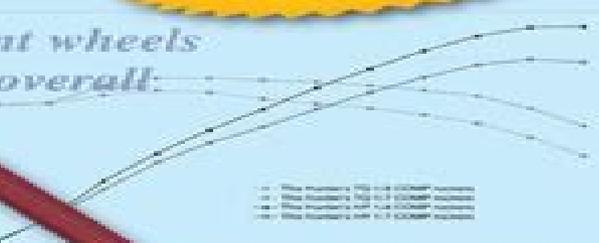
Displacement  
cylinder volume =  $\pi \times d^2 \times \text{stroke} \div 4$   
displacement =  $\pi \times d^2 \times \text{stroke} \times \text{number of cylinders} \div 4$   
stroke = displacement  $\div (\pi \times d^2 \times \text{number of cylinders}) \div 4$   
bore = displacement  $\div (\pi \times \text{stroke} \times \text{number of cylinders}) \div 4$

Revised Edition!

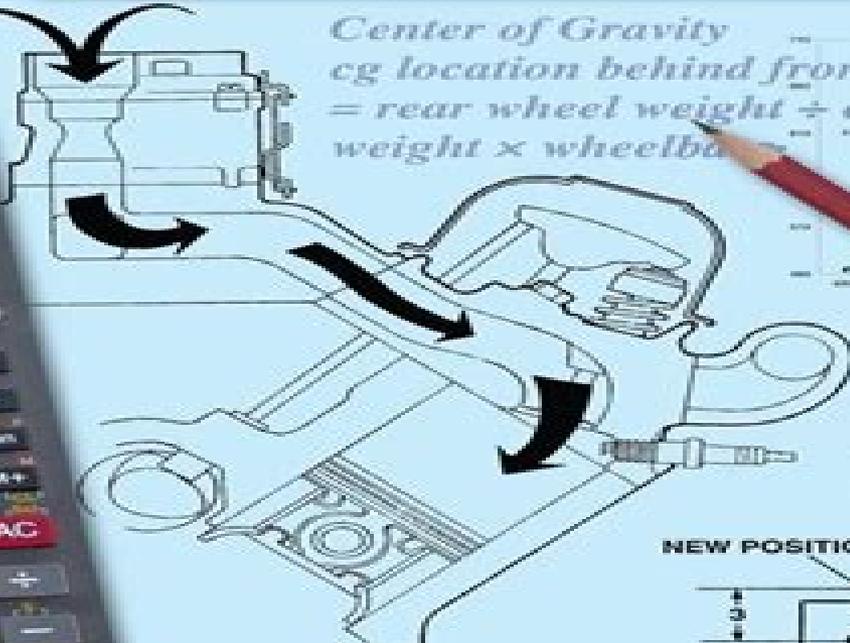


Weight Distribution  
percent of weight on wheels = weight on

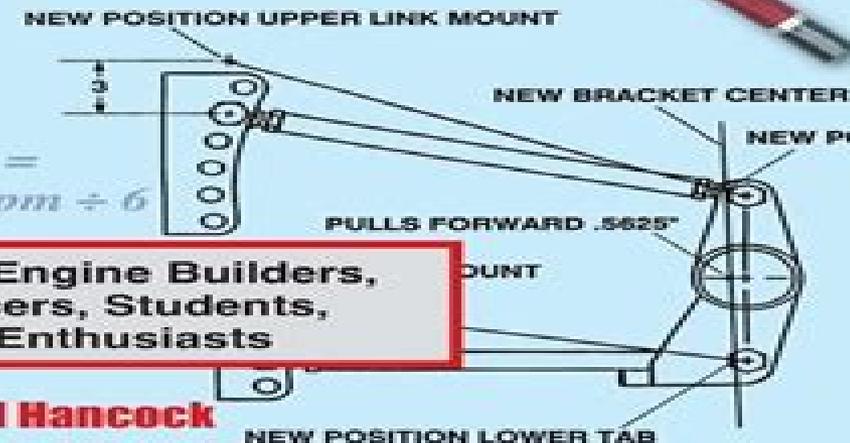
Center of Gravity  
cg location behind front wheels  
= rear wheel weight  $\div$  overall weight  $\times$  wheelbase



Horsepower & Torque  
horsepower = rpm  $\times$  torque  $\div 5252$   
torque = 5252  $\times$  horsepower  $\div$  rpm  
BSFC = fuel pounds



piston speed in fpm = stroke in inches  $\times$  rpm  $\div 6$



Easy Calculations for Engine Builders, Auto Engineers, Racers, Students, and Performance Enthusiasts

John Lawlor & Bill Hancock

gForce & Weight Transfer  
drive wheel torque = flywheel torque  $\times$  first gear  $\times$  final drive  $\times 0.85$   
wheel thrust = drive wheel torque  $\div$  rolling radius  
g = wheel thrust  $\div$  weight  
weight transfer = weight  $\times$  cg height  $\div$  wheelbase  $\times$  g lateral acceleration = 1.227  $\times$  radius

# Auto Math Handbook

**R Bogdan**



## **Auto Math Handbook:**

**Auto Math Handbook** John Lawlor,1991 Offers formulas and equations for calculating brake horsepower and torque displacement stroke bore compression ratio and more Automath Handbook: Mathematical Calculations, Theory, and Formulas for Automotive Enthusiats John Lawlor,1992 Auto Math Handbook John Lawlor,William Hancock,Bill Hancock,2011 Since 1991 John Lawlor s Auto Math Handbookhas been a standard reference for auto engineers students racers and enthusiasts The formulas calculations and equations in this book are the foundation for any car or engine building project Engineer and racing engine builder Bill Hancock has updated and expanded the original edition with revised sections on Displacement bore and stroke Brake horsepower and torque Air capacity and volumetric efficiency Center of gravity weight distribution and g force New sections on instrument error and calibration rolling resistance aerodynamics planimeter usage computer programs and moment of inertia are presented in the same easy to read format using real world applications

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