

Name _____ Date _____

Engine Displacement: Work out the problems below: SHOW ALL WORK!!!

<http://www.csgnetwork.com/cubicinchdispcalc.html> (chevy sizes)
http://www.europartsinc.com/zonker/eng_disp.htm VW calculators
http://www.iroczone.com/calcs/engine_size.htm (predetermined engine size)

$1 \text{ in}^3 = 16.39 \text{ cc}$ $1 \text{ liter} = 1000 \text{ cc}$ $\frac{1}{4} = .785$
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$D = .785 \times (\text{bore}^2) \times (\text{stroke}) \times (\# \text{ of cylinders})$

1. What is the displacement of an 8 cylinder engine with a **stroke** of 3.48 in. and a **bore** of 4.0 inches?

Engine displacement = _____ cubic inches = _____ liters

2. What is the displacement of an 8 cylinder engine with a **stroke** of 3.48 in and a **bore** of 3.74 in?

Engine displacement = _____ cubic inches, = _____ liters

3. What is the engine displacement of a 6 cylinder engine with a **bore** of 3.67 inches, and a **stroke** of 3.1 inches?

Engine displacement = _____ cubic inches = _____ liters

4. What is the displacement of a six cylinder engine with a **bore** of 101.6mm and a **stroke** of 88.39mm?
(divide cubic millimeters by 1000 to get cubic centimeters)

Engine displacement = _____ cubic centimeters = _____ liters

5. How much volume would be swept by a 4 cylinder engine that has a 3.5 in. **stroke** and a 3.75 in. **bore**?

Engine displacement = _____ cubic inches, = _____ liters