

(2) If the fuel your car uses were represented by a cylindrical column laid out all along its route, what would be the diameter of that column?

If you get 10 km per liter (about 24 miles per gallon), the cross section of the column must be  $10^{-3} \text{ cm}^2$ . Its diameter is 0.36 mm—roughly that of a No. 28 wire.