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Complex Conversions Quiz

- A. In the UK, gasoline is about £1.19 per liter. Determine this cost in USD (\$) for 1 gallon of gasoline. $1 \text{ £} = 1.38424 \text{ €}$ and $1 \text{ €} = \$1.08$
- B. A homeowner determines 75% of the 2400 ft² home requires new carpeting. Berber carpet can be installed for \$32.50 / yd². Estimate how much money it will cost to get new carpeting.
- C. A popular road trip map connecting 48 states and 50 major US landmarks is approximately 14,000 miles. Estimate the fuel costs for the trip using a car that averages 30 mpg when an average price of gas is \$2.35 / gal. Estimate the trip using a motorhome with 12 mpg.
- D. A cylinder and a sphere have the same radius and volume, $36\pi \text{ cm}^3$. Determine the height of the cylinder.
- E. Twelve inches of snow is equivalent to about 1 inch of rain. If 6 inches of snow were to fall on a 40 ft x 50 ft roof, estimate the weight of the snow on the roof in units of metric tons; 1 ft³ of rain water is about 62.5 pounds.