

Dimensional Analysis Practice Word Problems

1. Three onions weight 681 g rams and the price of onions is \$0.11 per lb. What is the cost of 8 onions?
2. The price of a ream of paper is \$4.00. There are 500 sheets of paper in a ream. If a sheet of paper weighs 0.50 oz, what is the price of 1.00 lbs of paper?
3. In order to achieve orbit, a rocket ship must travel at a speed of almost 29000 km/hr. What is this speed in miles per second?
4. What is the cost to drive from L.A. from San Francisco, a distance of 405 miles, if the cost of gasoline is \$2.90 a gallon and the car gets 25 miles per gallon of gas?
5. If you dig a hole through the earth to China for a game of ping-pong, how many years would it be before you got there if you could dig at a rate of 4.0 miles per day and the diameter of the earth is 12700 km?