

Conversion Homework

Using an online shopping center or a local grocery store, locate the following items. Indicate the brand name, price and the amount in the original container. Determine \$/fl oz and then convert to \$/gallon.

	Brand Name	Price	Amount (Fl. Oz.)	\$/fl. oz.	\$/gallon
Pure Vanilla Extract					
Liquid Dish Soap					
Bottled Water					
Gasoline (87)					
Coke					
Extra Virgin Olive Oil					
Motor Oil					

1 gallon = 128 fl. oz.

Use the travel calculator at <http://www.travelmath.com/flying-distance/> to determine the approximate distances from Arkadelphia to the following locations in **miles** and then convert to the indicated units.

Little Rock, Arkansas	_____ miles	→	_____ ft
Dallas, Texas	_____ miles	→	_____ cm
Paris, France	_____ miles	→	_____ km
Tokyo, Japan	_____ miles	→	_____ yds
New York City, New York	_____ miles	→	_____ m
London, England	_____ miles	→	_____ in

Convert the maximum speed of the following objects in **mph** to the indicated units.

Space Shuttle	17,500 mph	→	_____ ft/s
Light	671,000,000 mph	→	_____ m/s
Formula-1 Race Car	185 mph	→	_____ knot*
Cheetah	68 mph	→	_____ km/hr
Housefly	4.5 mph	→	_____ m/s
Snail	0.0313 mph	→	_____ knot*

* The **knot** is a unit of speed representing one nautical mile per hour and is used in meteorology, maritime and air navigation.

$$1 \text{ knot} = 1.852 \text{ km / hr} \quad \text{or} \quad 1 \text{ knot} = 1.151 \text{ mph}$$