

## The Gimli Glider

A simple math problem involving a conversion from Kg to Liters and a subtraction.


- Need 22,300 kg of fuel; currently had 7682 liters
- $(22,300 \mathrm{~kg}) \div(1.77 \mathrm{~kg} / \mathrm{liters}) \approx$ 12,598 liters
- Added 4916 liters (12,598 - 7682)


- Hurricane Katrina hit New Orleans
August 29, 2005


■ 1,836 known deaths due to the storm

- The Army Corps of Engineers rebuilt Flood gates and pumps afterwards
- June 20, 2007:
flood risk map released
Predicted Reduction of Floodwaters in the Lakewood neighborhood: $5 ½$ feet
- November 7, 2007: technical report released
Predicted Reduction: 6 inches
- Problem: +/- mixup


Parking Problem

Calculate whether a parking sticker is still valid or has elapsed.


- January 1, 2008 article published in the Annals of Internal Medicine
- Collect and inject 0.12 mg of epinephrine
- "1 milligram in 1 milliliter solution"
(1 mg of epinephrine in 1 mL of solution)
How many milliliters of solution to inject?
- Collect and inject 0.12 mg of epinephrine
■ "1 milliliter of a $1: 1000$ solution" (1 part epinephrine in 1000 parts solution)

How many milliliters of solution to inject?
1 milliliter of water [solution] weighs 1 g

