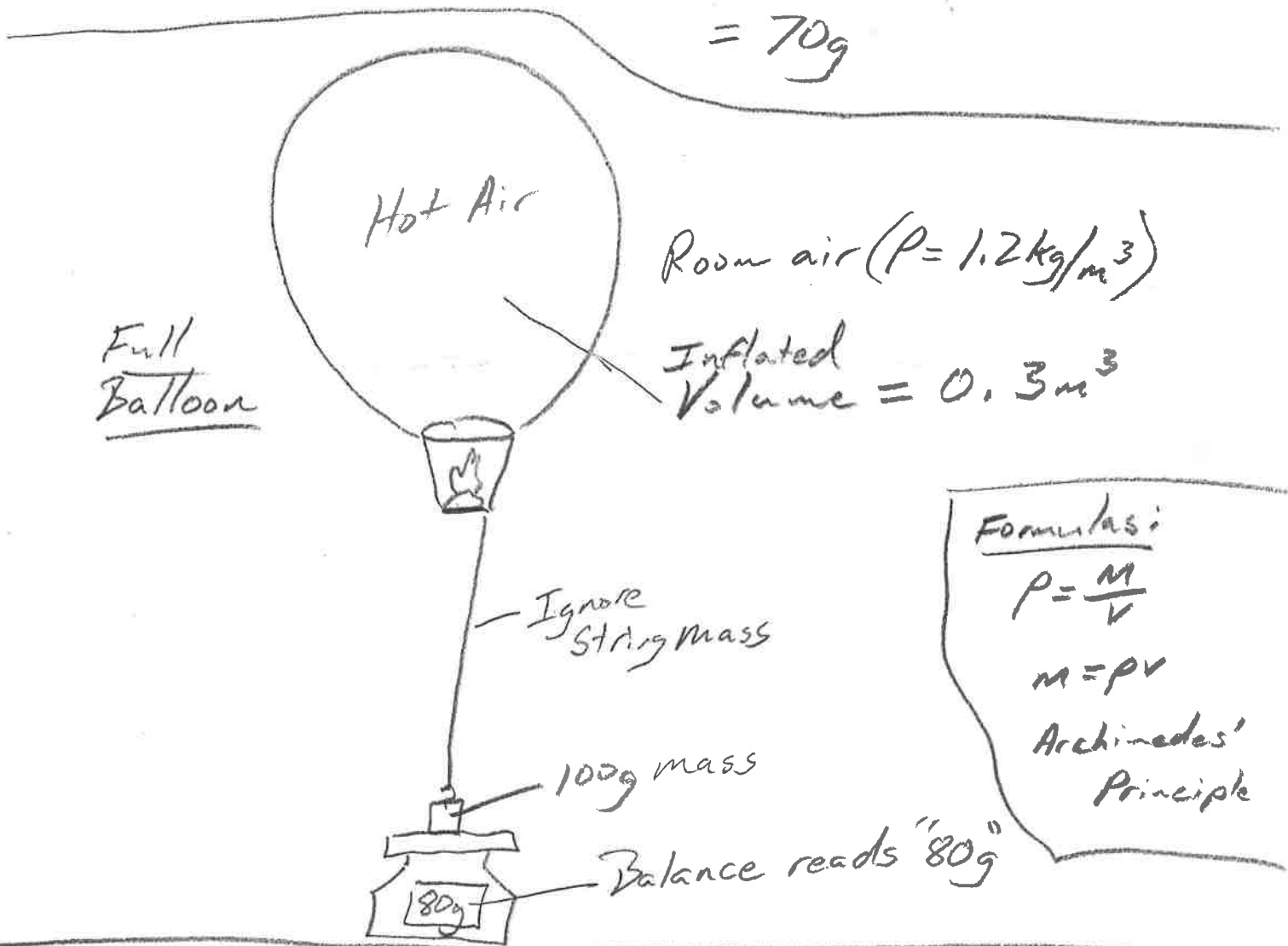
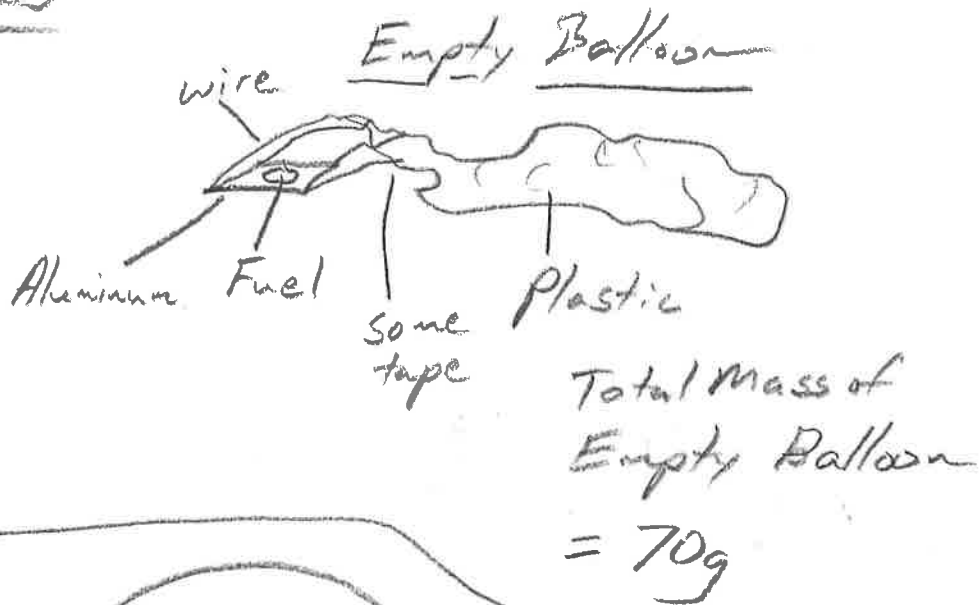


# Hot Air Balloon Problems



Formulas:

$$\rho = \frac{M}{V}$$

$$m = \rho V$$

Archimedes' Principle

- Problems :
- 1) What mass of air is being displaced by the full balloon?
  - 2) What is the mass of <sup>the</sup> hot air in the full balloon?