1.28 A hydrometer is used to measure the specific gravity of liquids. (See Video V2.8.) For a certain liquid a hydrometer reading indicates a specific gravity of 1.15. What is the liquid's density and specific weight? Express your answer in SI units.

$$SG = \frac{\rho}{\rho_{420} \otimes 4^{\circ} C}$$

$$I.15 = \frac{\rho}{1000 \frac{k_3}{m^3}}$$

$$\rho = (1.15)(1000 \frac{k_9}{m^3}) = 1150 \frac{k_9}{m^3}$$

$$8 = \rho g = (1150 \frac{k_9}{m^3})(9.81 \frac{m}{5^2}) = 11.3 \frac{k_N}{m^3}$$