## Exercise 92

Calculate these volumes.

- (a) What is the volume of 11.3 g graphite, density = 2.25 g/cm<sup>3</sup>?
- (b) What is the volume of 39.657 g bromine, density = 2.928 g/cm<sup>3</sup>?

## Solution

## Part (a)

Start with the given mass of graphite and use the density to determine the volume.

11.3 g × 
$$\frac{1 \text{ cm}^3}{2.25 \text{ g}} \approx 5.02 \text{ cm}^3$$

## Part (b)

Start with the given mass of bromine and use the density to determine the volume.

$$39.657 \text{ g} \times \frac{1 \text{ cm}^3}{2.928 \text{ g}} \approx 13.54 \text{ cm}^3$$