HW1-1)

The volume is given by L×W×H = 50 ft × 24 ft × 8 ft = 9600 ft^3.

To convert, multiply by 1 but in a particular form:

$$9600\ \text{ft}^3 \times \left(\frac{12\ \text{inches}}{1\ \text{ft}}\right) \times \left(\frac{12\ \text{inches}}{1\ \text{ft}}\right) \times \left(\frac{12\ \text{inches}}{1\ \text{ft}}\right)$$

$$= 16{,}588{,}800\ \text{in}^3 \times \left(\frac{2.54\ \text{cm}}{1\ \text{in}}\right) \times \left(\frac{2.54\ \text{cm}}{1\ \text{in}}\right) \times \left(\frac{2.54\ \text{cm}}{1\ \text{in}}\right) = 271{,}841{,}727.3\ \text{cm}^3 .$$