Answer to Question #50575, Chemistry, Other

A bottling plant has 164,900 bottles with a capacity of 355 mL, 123,000 caps, and 31,400 L of beverage. (a) How many bottles can be filled and capped?

Solution:

$$n(bottles) = \frac{V(total)}{V(in\ one\ bottle)}$$

$$n(bottles) = \frac{31400\ L}{0.355\ \dfrac{L}{bottle}} = 88450.7042\ bottles$$

Answer:
88450 bottles can be filled and capped.