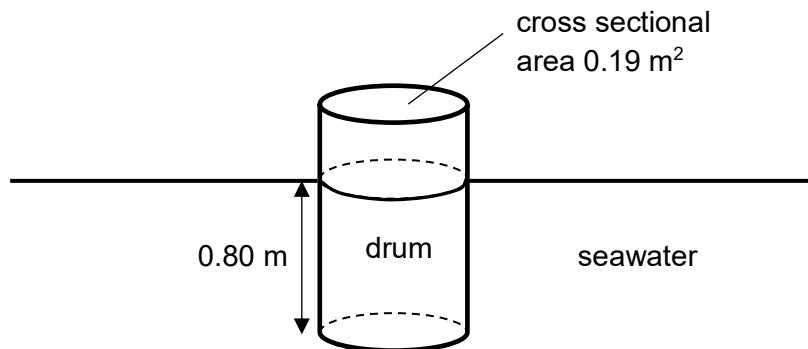


- 5 An oil-drum floats in equilibrium in seawater as shown.

The drum has a cross-sectional area of  $0.19 \text{ m}^2$ . The length of the drum submerged under water is  $0.80 \text{ m}$ . The density of seawater is  $1.1 \times 10^3 \text{ kg m}^{-3}$ .



What is the mass of the drum and its content?

- A** 167 kg      **B** 251 kg      **C** 1640 kg      **D** 1770 kg