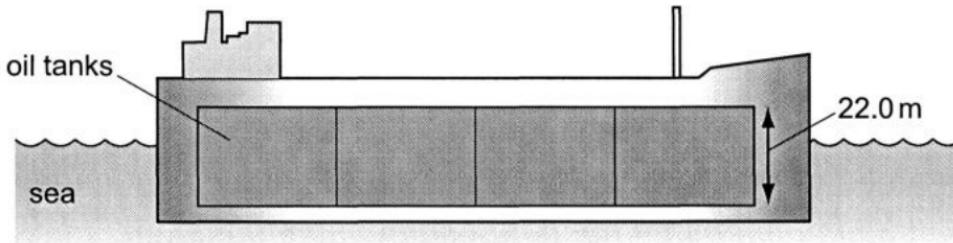


- 10 An oil tanker, with vertical sides, has an external cross-sectional area of $36\ 500\ m^2$ in the plane of the sea.



The tanker carries oil of density $930\ kg\ m^{-3}$ in its tanks, which have a constant cross-sectional area of $34\ 000\ m^2$ and depth 22.0 m. Sea water has density $1030\ kg\ m^{-3}$.

By how much does the tanker rise in the water when it unloads its oil?

- A 26.2 m B 22.7 m C 21.3 m D 18.5 m