

- 13** Liquids X and Y are stored in large open tanks. Liquid X has a density of 800 kg m^{-3} and liquid Y has a density of 1200 kg m^{-3} .

At which depths are the pressures equal?

	depth in liquid X / m	depth in liquid Y / m
A	8	20
B	10	15
C	15	10
D	20	8

- 14** A train of mass $2.2 \times 10^6 \text{ kg}$ is moving at a constant speed up a slope inclined at an angle of 0.64°