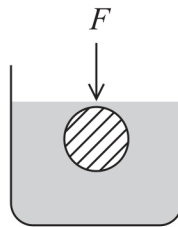
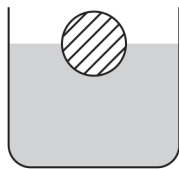


- 3 A sphere of weight 2.5 N floats in water with $\frac{1}{2}$ of its volume beneath the surface. A force F is applied to the sphere, completely immersing it in the water as shown.



Which of the following is the minimum value of F ?

- ☐ A $2 \times 2.5\text{ N}$
- ☐ B $1 \times 2.5\text{ N}$
- ☐ C $\frac{1}{2} \times 2.5\text{ N}$
- ☐ D $\frac{1}{4} \times 2.5\text{ N}$

(Total for Question 3 = 1 mark)