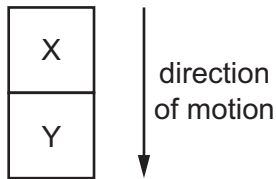


- 14** Two blocks X and Y are falling through a vacuum in a uniform gravitational field, as shown.



Block X has weight $2w$.

Block Y has weight w .

The blocks do not move apart.

Which value best represents the force exerted by block X on block Y?

- A** 0 **B** w **C** $1.5w$ **D** $2w$

- 15** A gas is contained inside a sealed syringe, as shown