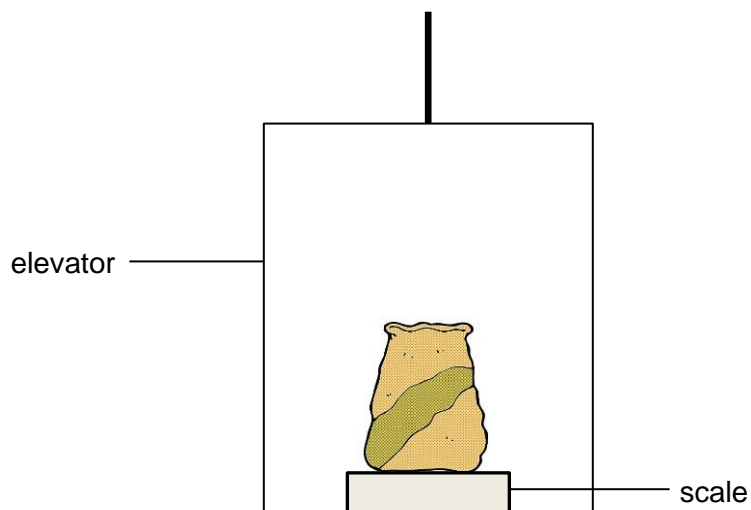


- 6 An elevator is used to either raise or lower sacks of rice. In the diagram, a sack of rice of mass 10 kg is placed on a scale in an elevator. The scale reads 12 kg when the elevator is accelerating.



Which of the following gives the magnitude and direction of the acceleration of the elevator?

- A  $0.20 \text{ m s}^{-2}$  upwards
- B  $0.20 \text{ m s}^{-2}$  downwards
- C  $2.0 \text{ m s}^{-2}$  upwards
- D  $2.0 \text{ m s}^{-2}$  downwards