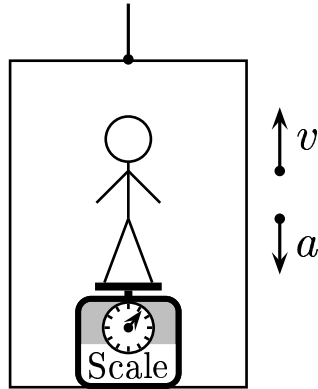


A man is standing on a scale inside of an elevator. When the elevator is at rest, the scale reading is $S = 500$ N.

The elevator is moving upward and is decelerating with $\|\vec{a}\| = \frac{1}{10} g$.



What is the scale reading?

- A) $S < 500$ N
- B) $S = 500$ N
- C) $S > 500$ N

Intuitively, as an ascending elevator comes to stop, a person feels lighter; *i.e.*, $S < 500 \text{ N}$.

Answer **A**.

05.07-05 An elevator problem 2004-3-24