

Chapter 4 Newton's Second Law of Motion Force and Acceleration

1. Skeffy the skater, total mass 25 kg, is propelled by rocket power.

- a. Complete Table I.
(Neglect resistance.)

TABLE I

FORCE	ACCELERATION
100 N	4 m/s^2
200 N	8 m/s^2
250 N	10 m/s^2

- b. Complete Table II for a constant 50-N resistance.

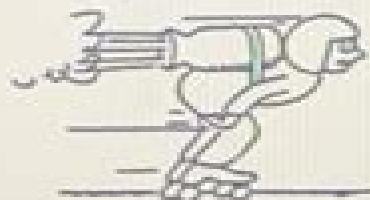
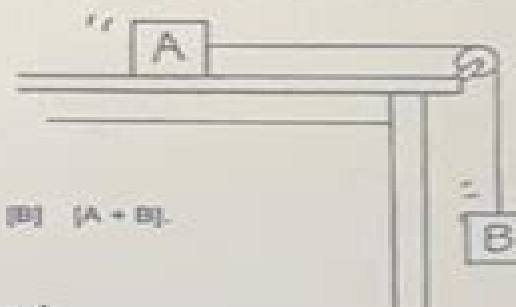


TABLE II

FORCE	ACCELERATION
50 N	0 m/s^2
100 N	2 m/s^2
200 N	6 m/s^2

2. Block A on a horizontal friction-free table is accelerated by a force from a string attached to Block B. Block B falls vertically and drags Block A horizontally. Both blocks have the same mass, m . (Neglect the string's mass.)



- a. The mass of the system (A + B) is $\{m\}$ $\{2m\}$.
 b. The force that accelerates (A + B) is the weight of $\{A\}$ $\{B\}$ $\{A + B\}$.
 c. The weight of B is $\{mg/2\}$ $\{mg\}$ $\{2mg\}$.
 d. Acceleration of (A + B) is $\{\text{less than } g\}$ $\{g\}$ $\{\text{more than } g\}$.
 e. Use $a = \frac{F}{m}$ to show the acceleration of (A + B) as a fraction of g . _____

If B were allowed to fall by itself, not dragging A, then wouldn't its acceleration be g ?



Yes, because the force that accelerates it would only be acting on its own mass – not twice the mass!



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