

**CONCEPTUAL Physics** PRACTICE PAGE**Chapter 4 Newton's Second Law of Motion**  
**Force and Acceleration**

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

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

TABLE I

FORCE	ACCELERATION
100 N	
200 N	
	10 m/s <sup>2</sup>

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



TABLE II

FORCE	ACCELERATION
50 N	0 m/s <sup>2</sup>
100 N	
200 N	

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 [ less than  $g$  ] [  $g$  ] [ 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!



# Conceptual Physics Chapter 4 Answers

**Jin-Ying Zhang**



## Conceptual Physics Chapter 4 Answers:

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