

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 ²

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



TABLE II

FORCE	ACCELERATION
50 N	0 m/s ²
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

Granvil C. Kyker



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Cutnell,Kenneth W. Johnson,1994-08-02 This text is designed for a one year course in college physics that uses algebra and trigonometry The book has three goals to help students develop conceptual understanding of physical principles the ability to reason and problem solving skill to help students see that physics is a wonderfully integrated body of knowledge to show students that physics principles come into play over and over again in their lives **Study Guide to Accompany Physics, by Paul A. Tipler** Granvil C. Kyker,1976

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