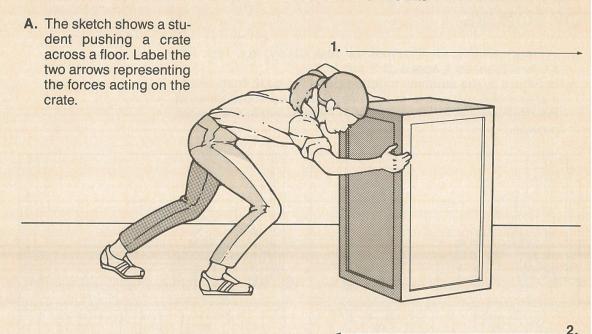
3.

4.

BALANCED AND UNBALANCED FORCES



- B. Each of the following statements describes what happens as the student applies a force on the crate. For each statement write either BALANCED or UNBALANCED in the space at the right to describe the forces acting on the crate at that point.
- 3. The student, at first, is unable to budge the crate from a resting position.
- **4.** As the student pushes harder the crate finally begins to move.
- 5. The student keeps pushing the crate with increasing force and the crate moves faster and faster.
- **6.** Finally the student uses just enough force to keep the crate moving at a steady pace.
- C. Complete the following sentences:
- 7. When unbalanced forces act on an object that is moving, there is a change in

or/and	

8. When unbalanced forces act on an object that is at rest, the object _____

ACCELERATION AND PAIRS OF FORCES

A. In Figure 1, the student pushes the desk starting from rest. The student reaches a speed of 3 m/s in 2 s. In Figure 2, the students together push the desk from rest to a speed of 6 m/s in 2 s. In each case, find the acceleration of the desk and the force applied to it. Fill answers in the spaces provided.

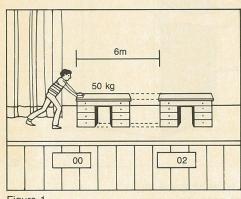


Figure 1.

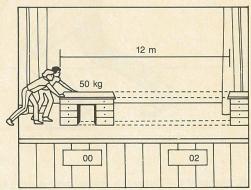


Figure 2.

Acceleration =	m/s-0 m/s					
	S					
	mlele					

___ N

B.	Forces	always	act in	pairs.	Describe	the	pairs	of	forces	in	the	pictures	above.	

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Way Salak			