Friction

COMMENTS: Resistance to motion, caused by one surface rubbing against another, is called friction. Friction can be reduced by smoothing and polishing the surface of contact, by lubricating surfaces with grease or oil, or by rolling instead of sliding. That is the reason ball bearings are used in machines such as bicycles and automobiles. Sometimes we want to increase the frictional forces. When we use the brakes on a bicycle or car, we are increasing friction in order to stop.

A Underline the correct answers.

1. Friction is a form of (a. resistance b. contact).
2. Friction can be (a. reduced b. increased).
3. Friction can be reduced by (a. polishing b. nailing).
4. We use friction when (a. walking b. swimming).
5. Friction can be increased by (a. pressure b. more contact).
6. Ball bearings are used to (a. increase b. decrease c. reduce) friction.
7. Brakes are used to (a. reduce friction b. increase friction c. stop).
8. Grease and oil reduce friction by (a. lubricating b. sanding).
9. Rolling usually creates less friction than (a. sliding b. flying c. dragging).

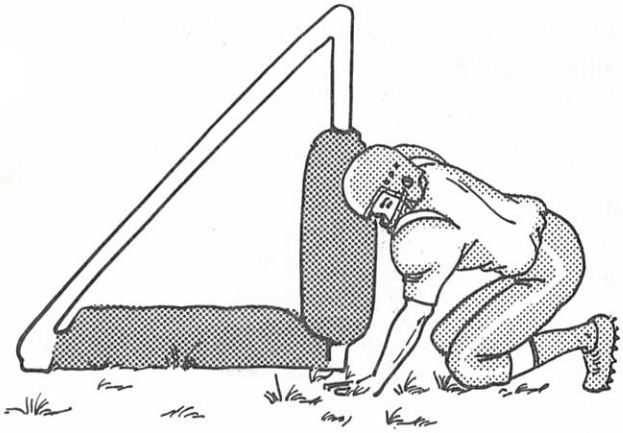
B True or False

T 1. Friction is a common opposition to force.
____ 2. Friction can be increased.
____ 3. Friction is caused by one surface rubbing against another.
____ 4. Friction cannot be reduced.
____ 5. Smoothing a surface of contact can reduce friction.
____ 6. The wind can create a form of friction.
____ 7. Automobiles use ball bearings to increase friction.
____ 8. Automobiles use brakes to reduce friction.
____ 9. Friction is a form of resistance.

C Place X by each word that could tell about friction.

1. resistance X
2. oak
3. polish
4. win
5. grease
6. gamble
7. turn
8. movement
9. ignite
10. slower
11. fuel
12. speed
13. sugar
14. rubbing
15. motion
16. wax
17. white
18. oil
19. lose
20. force
21. bearings
22. key
23. faster
24. burn
25. stop
26. candy
27. force
28. brake

Friction



To move the sled, the football player must overcome the friction between the sled and the ground.