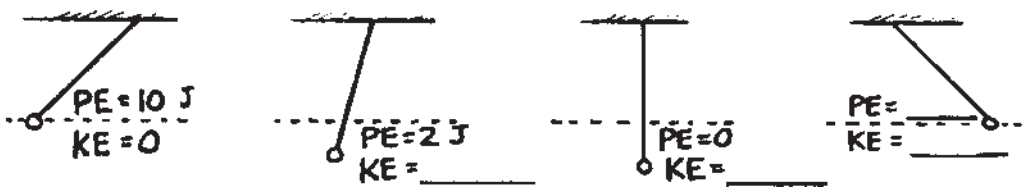
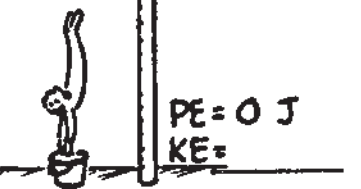
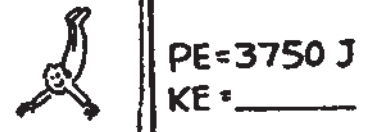
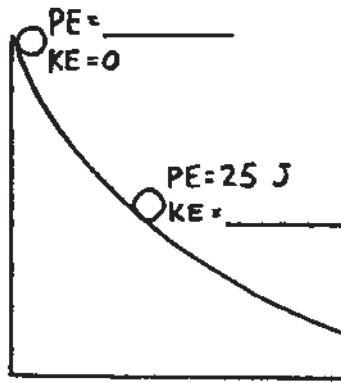
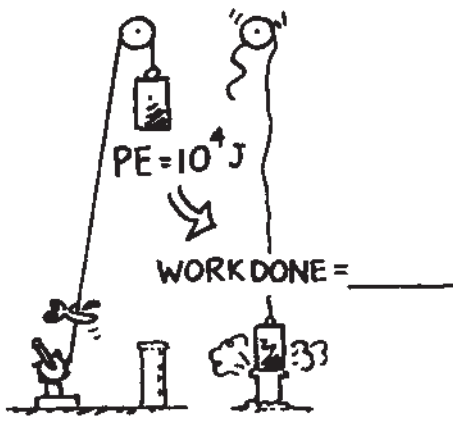
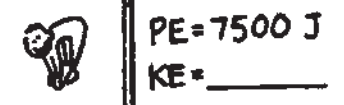
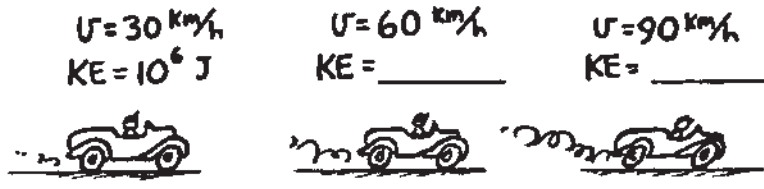
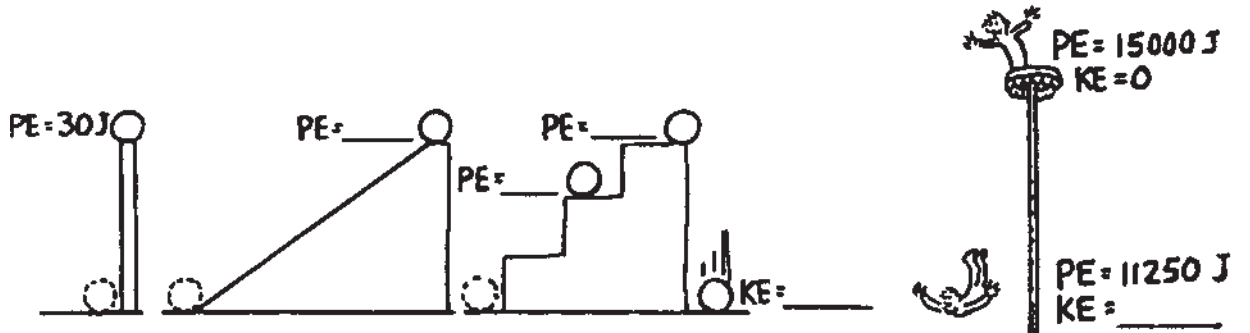


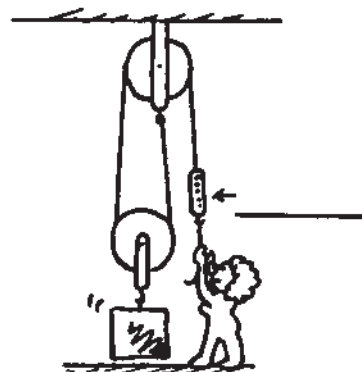
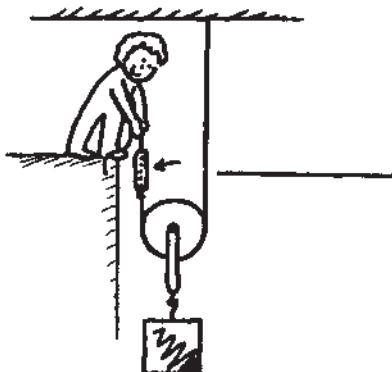
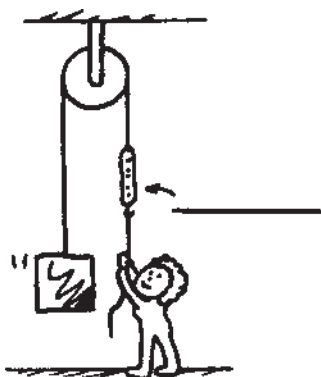
**Concept-Development Practice Page** **9-2**

*Conservation of Energy*

1. Fill in the blanks for the six systems shown.



2. The woman supports a 100-N load with the friction-free pulley systems shown below. Fill in the spring-scale readings that show how much force she must exert.



3. A 600-N block is lifted by the friction-free pulley system shown.

a. How many strands of rope support the 600-N weight?

\_\_\_\_\_

b. What is the tension in each strand?

\_\_\_\_\_

c. What is the tension in the end held by the man?

\_\_\_\_\_

d. If the man pulls his end down 60 cm, how many cm will the weight rise?

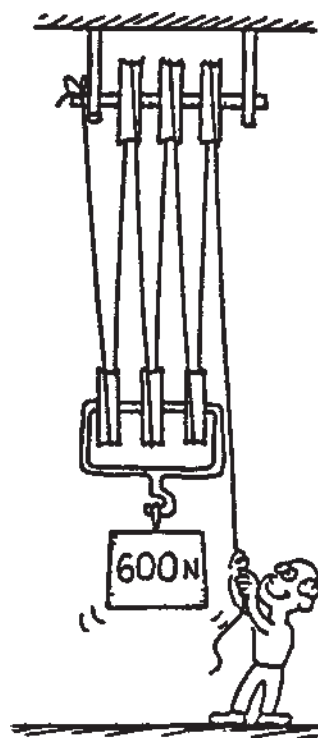
\_\_\_\_\_

e. What is the ideal mechanical advantage of the pulley system?

\_\_\_\_\_

f. If the man exerts 60 joules of work, what will be the increase of PE of the 600-N weight?

\_\_\_\_\_



4. Why don't balls bounce as high during the second bounce as they do in the first?

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

