Directions: *Write* **work** *on the line provided if work is done, and* **none** *if no work is done.*

_____ 1. Someone is sitting on a cushion on the floor.

_____ 2. The cushion is picked up and put on the couch.

_____ 3. The cushion is put back on the floor.

_____ 4. A baseball is hit into the bleachers.

_____ 5. You lift your arms over your head.

_____ 6. You study two hours for a science test.

_____ 7. A little girl on a swing is pushed by her father.

Directions: Write the letter in *Column I with the words in Column II as used in the formula below.*

Column I
- 8. watt (W)
- 9. newton (N)
- 10. joule (J)
- 11. meter (m)
- 12. second (s)

Column II
- a. time
- b. distance
- c. work
- d. force
- e. power

Directions: *Use the formulas to solve the following problems.*

$$\text{work} = \text{force} \times \text{distance} \qquad \text{power} = \frac{\text{work done}}{\text{time needed}}$$

13. a. How much work was done to move a 10 N book 5 meters?

_____

b. What power was used if it took 2 s?

_____

14. a. Two people each applied 100 N of force to move a crate 3 m. How much work was done?

_____

b. How much power was used if it took them 60 s?

_____