

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:
formula below.

Write the letter in

Column I with the words in Column II as used in the

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.

$$\text{work} = \text{force} \times \text{distance}$$

$$\text{power} = \frac{\text{work done}}{\text{time needed}}$$

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?
