

7.1 Work, Energy and Power

1. Fill in the blanks with the correct answers.

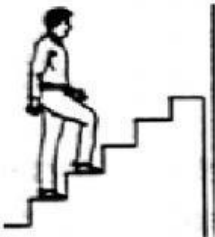
Joule (J)	1 metre	Watt (W)	displacement	energy
move	1 watt	force	work	1 newton

- a) Work is the product of _____ and _____ in the direction of the force.
- b) The S.I. unit for work is _____.
- c) When force of _____ is used to _____ an object for a distance of _____ in the direction of force, work of 1 joule is done.
- d) _____ is the ability to do work.
- e) When _____ of 1 joule is done in 1 second, power of _____ has been used.
- f) The S.I. unit for power is _____.

2. Choose the correct answer.

- a) The amount of work done is _____ the amount of energy used.
- b) Power is the rate of _____.
- c) The greater the work done , the _____ the power needed.
- d) The two factors that affect the amount of work done are _____ and _____.

3. Diagram below shows a few activities. State whether the work is done or work not done.

a) 	b) 	c) 	d) 