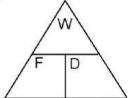
Work has a special meaning in science. It is the product of the force applied to an object and the distance the object moves. The unit of work is the joule (J).

W = Force x Distance

W = Fxc

Force = newtons Distance = meters



Solve the following problems.

1.	A book weighing 1.0 newton is lifted 2 meters. How much work was done?	F D	Answer Units
2.	A force of 15 newtons is used to push a box along the floor a distance of 3 meters. How much work was done?	F D	Answer Units J N m
3.	It took 50 joules to push a chair 5 meters acro the floor. With what force was the chair pushed?	SS W	Answer Units J N m
4.	A force of 100 newtons was necessary to lift a rock. A total of 150 joules of work was done. How far was the rock lifted?	FD	Answer Units J N m
5.	It took 500 newtons of force to push a car 4 meters. How much work was done?	F D	Answer Units
6.	A young man exerted a force of 9,000 newto on a stailed car but was unable to move it. How much work was done?	ns W	Answer Units J N m