**Worksheet: Work**                                           Name_____

1.  Work is the product of the _____ exerted on an object and the distance the object moves in the _____ of the force.

2.  The equation for work is _____.

3.  The unit for work is the _____ which also called the _____.

4.  Work is done on an object only if the object _____.

5.  Work is done on an object only if the force and displacement are _____.

*For each problem, draw a diagram to make sure the force and displacement are in the same direction.*

6.  A person lifts a package weighing 75 N.  If she lifts it 1.2 m off the floor, what work has she done?

7.  When 142 J of work is done in pushing a box horizontally 13.3 m, how much force is applied?

8.  What work is done when a person pushes a refrigerator weighing 720 N across a floor 12 m?  (The force of friction between the refrigerator and the floor is 480 N.)

9.  A sailor pulls a boat along a dock using a rope at an angle of 60.0° with the horizontal.  How much work does the sailor do if he exerts a force of 255 N on the rope and pulls the boat 3.00 m? A girl pulls a wagon along a level path for a distance of 44 m.  The handle of the wagon makes an angle of 22° above horizontal.  If she pulls on the handle with a force of 87 N, how much work is done?

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