**Work and Power Practice**

*Directions: Solve each problem using the GUESS and CER method on a separate sheet of paper. Answers are in italicized parenthesis so you can check your work and understand the process.*

**WORK W=Fd**

1. A child does 405 J of work to pull a sled up a hill. If the child walks 15 m up the hill, what force is required?
2. A crate is being lifted into a truck. If it is moved with a 2470 N force and 3650 J of work is done, how far has the crate been lifted?
3. If 16,700 J of work is done to shoot the human cannonball down a 3.05 m barrel, then how much force is applied to the person to fire them out the cannon?
4. How much work was done if you use 75 W for 500 s?
5. How long does it take to do 326 J of work with 16 watts?
6. How much power does it take to do 900 J of work in 4 s?