1. What is work?

2. A girl picks up a basketball and shoots it. When is the girl doing work?

3. When does she stop doing work?

4. You are playing backyard football. You pick up a fumble and return it for a touchdown. When is the only time you did work? Explain your answer. (4 pts)

5. You know work is done on an object if 2 things occur (2 pts)
   A)
   B)

6. If you lift a 100 N barbell 2.5 m how much work did you do? (3 pts)
7. It takes 1056 J to lift your dog to a height of 4 m. With what force do you have to apply to the dog to lift it that far? (3pts)

8. What is power?
9. If you do 350 J of work in 14 s what is your power? (3pts)

10. If you pull a 200 N wagon with 50 W of power how long did you pull for? (3pts)

11. What is the difference between work and power? (2pts)

12. You lift a chair that weighs 50 N to a height of 0.5 m and carry it 10 m across the room. How much work do you do on the chair? (3pts)