

Name _____ Period _____

Energy Quiz 4 – Power

1. You and your bike have a mass of 65 kg. If you start at rest and pedal REALLY hard and get to 8.4 m/s in 12 seconds how much power did you produce?

2. Consider how much you weigh (1 pound = 4.45 N). If you start at the field level at a Twins game and run (you should never do this, you might hurt someone or yourself) to the top of the stairs to get your hotdog before the next inning starts. The concourse is 25 m higher than the field. If you produce 250 watts (about 1/3 horsepower) how long will it take you to get to the top?