Phys 220 - How powerful are you?

Materials and Equipment: stopwatch, meter stick, human

Predict
Which person in your group is capable of the largest burst of power over a short distance?

Plan
Create an experiment that will allow you to determine the power output of each person in your group as you run up a flight of stairs.

Invesigate
Collect data for each member of your group and then convert the power output to horsepower and post the largest value on the white board.

Analyze
Discuss the accuracy of this experiment. What factors were not accounted for in your calculations? Which of these would cause you to overestimate the person's power output and which would cause you to underestimate?