Mysteriously Melodramatic & Maniacal Metric Measurements

Safety
While outside, you must remain in view of your teacher at all times. You may not approach any parked or moving vehicles. You may not damage any school or private property.

Materials
- Meter stick
- Thermometer
- Graduated cylinder
- Large beaker

Procedure
PART I: MAKING PREDICTIONS
For each of the following items, make a prediction for the measurement of the item using the unit given. You must write your answer in pen. You may not cross out an answer or change it at any time. You will have 3 minutes to make your predictions.

1. The length of the building in meters: __________________
2. The height of the exteriors doors in decameters: ________________
3. The height of an exterior step in millimeters: _________________
4. The temperature outside, in the shade, in Kelvin: ______________
5. The volume of water a solo cup can hold in milliliters: _____________
6. The area of a parking space in square meters: _______________
7. The area of the building in square meters: ________________
8. The height of the building in meters: ______________
9. The volume of the building in cubic meters: _________________
10. The volume of your smallest groupmate’s hand in milliliters: ____________
11. The temperature of your groupmate’s armpit in Celsius: ____________
PART II: MAKING MEASUREMENTS
Take a meter stick, a thermometer, graduated cylinder, and this handout with you. Measure each of the items and record the measurement in the correct units. You must record your answers in pen. You may not cross out an answer or change it at any time. You will have 25 minutes to make your measurements. Any items you have not made a measurement for will cost you points in the game.

1. The length of the building in meters: __________________
2. The height of the exteriors doors in decameters: ______________
3. The height of an exterior step in millimeters: ______________
4. The temperature outside, in the shade, in Kelvin: _____________
5. The volume of water a solo cup can hold in milliliters: __________
6. The area of a parking space in square meters: ______________
7. The area of the building in square meters: ______________
8. The height of the building in meters: ______________
9. The volume of the building in cubic meters: ______________
10. The volume of your smallest groupmate’s hand in milliliters: __________
11. The temperature of your groupmate’s armpit in Celsius: __________

Conclusions
How close were your predictions to the actual measurements?

Do you think you would have been closer if you were using English measurements (foot, yard, Fahrenheit)? EXPLAIN YOUR ANSWER.