

## Report Sheet

### The Rolling Can

*Remember to complete all calculations in kg, m, s, N and J!*

Also include complete calculations: equation, numbers in equation, answer with a unit.

Data:

Can mass: \_\_\_\_\_

Can diameter: \_\_\_\_\_

Can radius: \_\_\_\_\_

Ramp length: \_\_\_\_\_

Ramp height: \_\_\_\_\_

Level surface distance: \_\_\_\_\_

	Trial 1	Trial 2	Trial 3	Average
Time on the ramp:	_____	_____	_____	_____
Time on level surface:	_____	_____	_____	_____

### Dynamics Analysis

Torque:

Moment of inertia:

Angular acceleration

Translational acceleration

## Energy Analysis

Master equation:

Equation for this situation:

## Angular Momentum Analysis

Master equation:

Equation for this situation:

## Questions

1. Percent error acceleration
2. Percent error velocity
3. Percent error velocity
4. Error comparison