**Your Best Pitch** Name:

*Determine the velocity of your pitch using a spring scale and a metre stick.*

**Data:**

1. Mass of the ball: \_\_\_\_\_\_\_\_\_\_\_
2. Mass of the box: \_\_\_\_\_\_\_\_\_\_\_
3. Force of friction between the box and the desk: \_\_\_\_\_\_\_\_\_\_
4. Displacement of the box: \_\_\_\_\_\_\_\_\_\_

**Calculations:**

1. Determine the acceleration of the box and ball after impact.
2. Determine the velocity of the box and ball at the time of impact.
3. Determine the velocity of the ball alone before impact.

**How fast was your pitch?**