

Name: _____

Date: _____

SLOWING MOVEMENT QUESTIONS

1. Use a calculator to do the calculation below.

Subtract the average time from your initial test from the average time from your final test.

$$\frac{\quad}{\text{(final)}} - \frac{\quad}{\text{(initial)}} = \frac{\quad}{\quad}$$

This is the amount of time you slowed the ball down!

2. What force caused the ball to fall to the floor?

Gravity

3. Why did your design slow down the ball? What forces were involved?

4. Were the forces balanced on the ball? Explain.

No, the forces were not balanced. The ball still moved, so the forces could not have been balanced.

5. What would happen if the forces were balanced?

If the forces were balanced, then the ball would not move. The force of gravity would be pulling down and another force would be pushing up with the same force.

6. How would you change your design to slow the ball even more?
