QUESTIONS TO HAND IN-EXPERIMENT 7

NAME_____

LAB INSTRUCTOR _____ LAB DAY/TIME _____

1. A spring which hangs vertically is 20 cm long with no weight added to its end. Putting a 0.5 kg mass on the end of the spring causes it to stretch until its new length is 25 cm. What is the spring constant?

A spring has a spring constant of 47.3 N/m. A mass of 300 grams is added to the end of the spring and the mass - spring system is set into motion.

- **2.** What is the period of this motion?
- **3.** What is the frequency of the motion?
- 4. If the mass is doubled, what happens to the period of oscillation?
- **5.** If the mass is reduced to one-fourth its original value, what happens to the frequency of oscillation?