Name	_ (Do this before the test, grade it and correct it on the website, turn it in before the test)
Show your work, round to about three total digit	s, circle your answers, and label them with units. Use the convention that up is positive.
A 1.60 kg mass hangs on a rope.	
1. What does the tension need to be in the	he rope to accelerate the mass upwards at 3.56 m/s/s?
2. What is the acceleration of the mass	if the tension in the rope is 19.3 N?
3. What is the tension in the rope if the	mass is accelerating downwards at 7.20 m/s/s?
4. What is the acceleration of the mass i	if the tension in the rope is 11.0 N?
5. The mass is moving upwards at 5.30 is stopping?	m/s and stops in a distance of 2.80 m. What is the tension in the rope as it