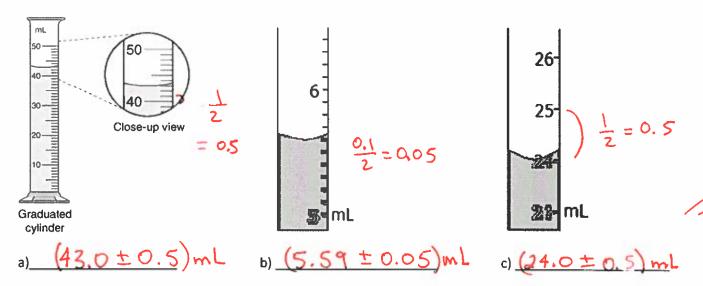
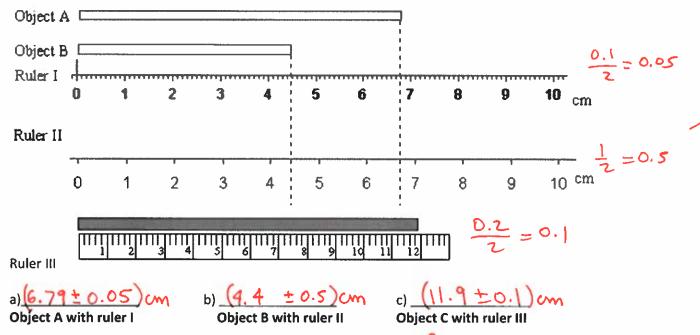
WS1 Uncertainties Worksheet V4

Name: answers (8 Due: OZ -) Friday Sept 6

1. Determine the measurements shown on each of the graduated cylinders shown below. Indicate the absolute uncertainty and units with each measurement.



2. Determine the length of each steel rod shown below. Indicate the absolute uncertainty and units with each measurement. (Rulers "a" and "c" are 12 cm long.)



3. An irregular object is placed into a graduated cylinder that contains (54.3 ± 0.5) mL of water. The water level appears to rise to (93.6 ± 0.5) mL. How much water does the object displace? Include units and uncertainties in you final answer. Show your work. $(A-B) \pm (CA+SB) = (93.6-54.3) \pm (0.5+0.5)$

Final Answer: (39 ± 1) m