	Section IA	Review		
Part 1: Convert the following values to the desired units. Show work.				
1) 0.23 km =	mm	6) 50.0 dm =	in	
2) 4600 pg =	μg	7) 0.0056 gal =	mL	
3) 240 lb =	_ kg	8) 71.2 lb =	hg	
4) 120,000 cm <sup>3</sup> =	hL	9) 190000 µs =	hours	
5) 19.0 gal =	L	10) 23.7 yd =	cm	

Part 2: Answer the following questions:1) What is the purpose of a sand filter as a separation technique?

2) Use the following pictures to measure the amounts. Express answers as accurately as possible.



mL 50 40	50
50 40 30 10 Gradua cylinde	ted er

3) Describe a situation in which the following pieces of safety equipment are used: a) fire extinguisher

b) fire blanket

c) safety shower

Regular notation	Sig Figs	Scientific Notation
		4.9209 x 10 <sup>-8</sup>
90.10		
700000000		
		7.9100 x 10 <sup>-5</sup>
		$1.157 \ge 10^{\circ}$
23.540		
		$1.9 \ge 10^8$
560.		
0.0001045		
		$3.56020 \ge 10^4$

Part 3: For each number, tell how many sig figs and convert to the other notation

Part 4: Express the answer to each problem in the proper number of significant figures. Then express the answer in scientific notation.

1) 468 + 1203.89	=	 Scientific Notation:
2) 19.67 • 232	=	 Scientific Notation:
3) 6.9 / 1102	=	 Scientific Notation:
4) 1123.54 - 151.9	=	 Scientific Notation:
5) 122.09 • 64	=	 Scientific Notation:
6) 137.67 + 1904.5	=	 Scientific Notation:
7) 1204 / 2.0	=	 Scientific Notation:

Part 5: Use the data listed below to answer the following questions.

% Water Recovered
23.2
91.4
65.9
71.1
32.2
85.6
88.9
81.0
63.7
69.5
78.6



1) Construct a histogram for the data collected.

2) Determine the mean, median and range of the data compiled.