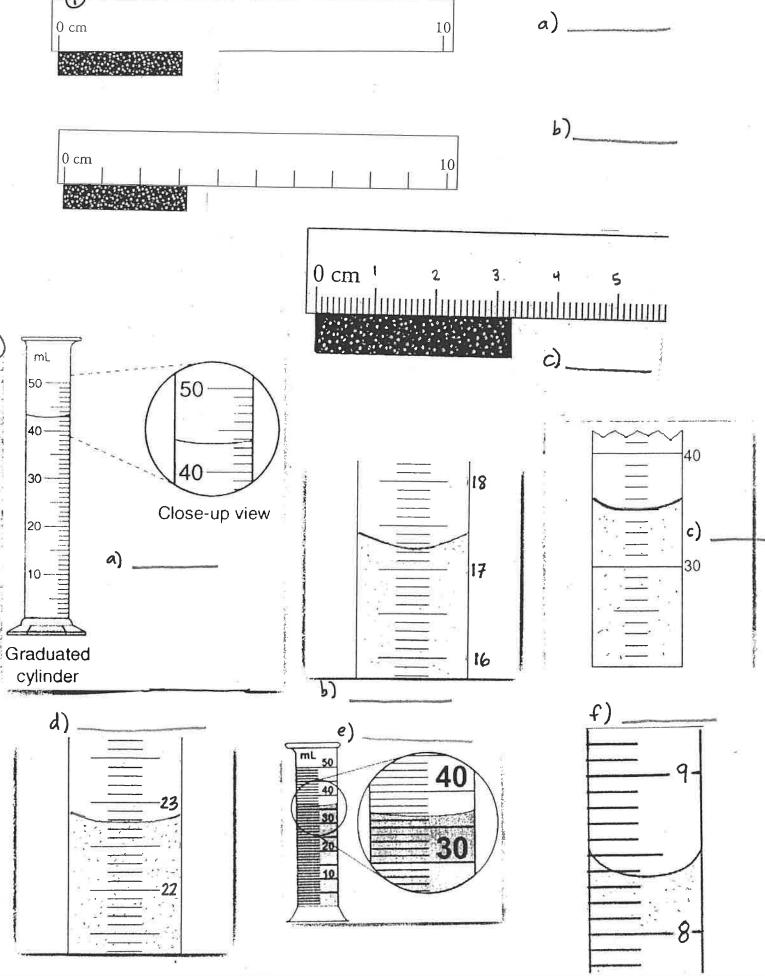
WS 2.0 Part II. Sign	ificant Figures!	Nar	ne:		p
1. How many significant figures are in each of these numbers?					
1.221 24	95.37	1.28 x 10 ²	3.1 x 10 ⁻¹	1234.56789	7
2. Rules for whether	zeroes count as signif	ficant figures! Read t	he rules and fill i	n the blanks.	ý
a. Zeroes in between	n two non-zeroes alwa	ys count as significar	nt figures.		
For example, 6008 h	as 4 significant figures	s, 34031 has s	ignificant figures	, .230004 has 6 signifi	cant figures.
b. Zeroes on the <u>left</u>	side of a number never	er count as significan	t figures.		
For example, 0.0000 0.733 has 3 significa 0.003 has 1 significa		gures.	.088 has	significant figures. significant figures. significant figu	
Examples: 0.003	nt side of a number <u>son</u> has 1 sig. fig. 0 has 2 sig figs	350 has 2 s 350, has 3	gnificant figures. ig. figs. sig. figs sig. figs	87100 has 3 sig figs. 87100. has 5 sig figs 87100.0 has 6 sig fig 8.710 x 10 ⁴ has 4 sig	gs.
0.030000 has sig figs. 440 has sig figs. 440.0 has sig figs 440. has sig figs * What determines whether "right side" zeroes count as significant figures?					
5. How many signif 0.0023 0.410 707	icant figures are in each 1.20 x 10 ³ 600 600.	0.0000207 0.004 24.40	0	8 x 10 ⁻² 0.0110 50	
6. Round or rewrite the given number so that it has 3 sig. figs., and so it has 2 sig. figs. Number with 3 s.f. with 2 s.f					
90	2	-	=======================================		
11.48 7	·	-			
436.2318	(A)	- 			
0.02078		***************************************			
0.0154449		¥ 			
0.040611		·			
18.921	1 5 = = = = = = 				
18.981		-			
3.5	8				
0.0037921		10			

30.28



WS 2.0	part II	continued!
W 77 77 77 77	purixi	commueu.

Vame:	p.

7	Rewrite each number in	soiontific notation	so that it keeps	the came number	of significant	figures as it start	ed with
7.	Rewrite each number in a	scientific notation	so that it keeps	the same number	or significant	figures as it start	eu wiii.

2150.	300	0.0070
2150	310	0.000006780
0.00025	310.0	0.11240
0.0002500	5.2	0.007

8. Round or rewrite each number so that it has the number of sig. figs. indicated in parentheses next to the blank. Use scientific notation only if it is necessary for reporting the correct number of significant figures.

80	>	(3)		
80	>	(2)		
800	>	(3)	729>	(2)
800	>	(2)	0.00068>	(4)
3.482	>	(3)	181000>	(6)
3.482	>	(2)	181000>	(2)
			181000>	(5)
6000	>	(3)		
6000	>	(4)		
6000	>	(2)	12530>	(2)
4	>	(3)	101>	(2)
0.002	5981871>	(1)	101>	(1)
0.002	6981871>	(2)	50>	(4)
0.002	6981871>	(3)	33000>	(3)

440022.11>	(2)	700.0>	(2)
440022.11>	(3)	0.002911>	(1)
888111>	(3)	0.002911>	(5)
888111>	(2)	2911>	(3)
0.0030087>	(2)	2911>	(2)
0.0030087>	(3)		

700000>	(3)
700000>	(7)
6684.328>	(3)
6684.328>	(2)
0.0009>	(3)
0.034128>	(3)

≗Ban Dihydrogen Monoxide!♣



Dihydrogen monoxide is colorless, odorless, tasteless, and kills uncounted thousands of people every year. Most of these deaths are caused by accidental inhalation of DHMO, but the dangers of dihydrogen monoxide do not end there. Prolonged exposure to its solid form causes severe tissue damage. Symptoms of DHMO ingestion can include excessive sweating and urination, and possibly a bloated feeling, nausea, vomiting and body electrolyte imbalance. For those who have become dependent, DHMO withdrawal means certain death.

Dihydrogen monoxide:

- is also known as hydroxl acid, and is the major component of acid rain.
- contributes to the "greenhouse effect."
- may cause severe burns.
- contributes to the erosion of our natural landscape.
- accelerates corrosion and rusting of many metals.
- may cause electrical failures and decreased effectiveness of automobile brakes.
- has been found in excised tumors of terminal cancer patients.

Contamination Is Reaching Epidemic Proportions!

Quantities of dihydrogen monoxide have been found in almost every stream, lake, and reservoir in America today. But the pollution is global, and the contaminant has even been found in Antarctic ice. DHMO has caused millions of dollars of property damage in the midwest, and recently California.

Despite the danger, dihydrogen monoxide is often used:

- · as an industrial solvent and coolant.
- in nuclear power plants.
- in the production of styrofoam.
- · as a fire retardant.
- in many forms of cruel animal research.
- in the distribution of pesticides. Even after washing, produce remains contaminated by this chemical.
- as an additive in certain "junk-foods" and other food products.

Companies dump waste DHMO into rivers and the ocean, and nothing can be done to stop them because this practice is *still legal*. The impact on wildlife is *extreme*, and we cannot afford to ignore it any longer!

The Horror Must Be Stopped!

The American government has **refused** to ban the production, distribution, or use of this damaging chemical due to its "importance to the economic health of this nation." In fact, the navy and other military organizations are conducting experiments with DHMO, and designing multi-billion dollar devices to control and utilize it during **warfare** situations. Hundreds of military research facilities receive tons of it through a highly sophisticated underground distribution network. Many store large quantities for later use.

It's Not Too Late!

Act NOW to prevent further contamination. Find out more about this dangerous chemical. What you don't know can hurt you and others throughout the world. Send email to no dhmo@circus.com, or a SASE to:

Coalition to Ban DHMO 211 Pearl St. Santa Cruz CA, 95060