1. Round/rewrite each number so that it has 3 significant figures, and then 2 significant figures. Only use scientific notation if it is necessary for expressing the correct number of sig. figs.

Number	with 3 sig. figs.	with 2 sig. figs.
900	-	
60000	-	
61111	-	-
0.03		
5600		S
1300.9821		
302.1999999	-	
822.222	·	ş
0.0603779		: -
5000		,————
7481		
7401		ş
2.3790		1,
3000	-	·

2. Complete the following calculations, and then round/rewrite the answer with the correct number of sig. figs.

Calculator answer With correct s.f.

	Culturation and 41	
78.3 x 1.42	111.186	***************************************
6.78 x 2.3	15.594	
28.71 / 25.2	1.139286	
48.82 / 24.41	2	
60 / 0 0100	6000	

3. Complete the following calculations, and then round/rewrite the answer with the correct number of sig. figs.

Calculator answer With correct s.f.

35.12 + 2.3	37.42	
6.3 + 3.7	10	
6.8 + 102	108.8	
16.387 -1.2	15.187	

4. Complete the following calculations, and then round/rewrite the answer with the correct number of sig. figs.

Calculator answer With correct s.f.

9.382 x 27.1	2
341.1 + 17.32	
0.029 / 0.027	
25.25 + 11.75	
96.2 x 114.11115 x 0	0.000033381
414 + 16	
112.21 - 103.41	
112.21 / 103.41	·
46 + 82	<u> </u>
46 x 82	

lithium thiosulfate	
cobalt arsenate	
CoBr ₂	
SBr ₂	
NO	
BaO	
PbO	
Chromium IV oxide	
Strontium hypochlorite	
dinitrogen pentoxide	
triboron heptasulfide	
$\mathrm{Br_2O}$	
Ag_2O	
SiH ₄	
CS ₂	
ammonium phosphate	
bismuth dichromate	
MnPO ₄	
 6. Each chemical equation below shows two elements reacting to form a compound. For each reaction: a) classify the compound that forms as ionic or covalent. b) name the compound that forms. c) state whether the each reacting element will need to gain, lose, or share electrons to bond in the compound. d) If electrons are lost or gained, indicate which element will gain electrons and which will lose electrons. 	ound
a. $3 I_{2(s)} + 2 Al_{(s)}$ > $2 AlI_{3(s)} + energy$ c/d:	
b	
b. $3 I_{2(s)} + N_{2(g)} \longrightarrow 2 NI_{3(g)} + \text{energy}$ c/d:	
b	

5. Formula Writing Review. Fill in the missing name/formula for each compound. Be sure to name the compound according to the correct system (ionic or covalent).