	Calculator Answer:	Correct sig. fig. answer
78.3 / 1.42	= 111.186	
5.11005 x 2.3	= 11.7531	
28.71 / 25.2		
48.82 / 24.41		
60. / 0.0100		

3. Addition and Subtraction:

Look at all the given numbers and determine the precision of each number.

For example, Is it reported to the tens' place?

ones' place?

one tenth (1 decimal place)

one hundredth (2 decimal places)

one thousandth? (3 decimal places)

Determine which number is reported to the least precision (for example, the fewest number of decimal places.) Round/report your answer to the same precision as the least precise number.

	Calculator Answer:	Correct sig. fig. answer:
35.12 + 2.3	= 37.42	
6.3 + 3.7	= 10	
6.8 + 102	= 108.8	
16.387 - 1.2	= 15.187	
116.92 - 114.72	= 2.2	

4. Mixed Practice! Make the following calculations, and then round/report your answer to the correct number of
significant figures.

	Calculator Answer	Correct sig. fig. answer
126.2 + 4.41	= 130.61	
146.72 *7.96	= 1167.8912	
364.8 / 4.56	= 80	
36480 / 4.56	= 8000	
230.2 - 7.2	= 223	
2.49 x 86.72	= 215.9328	
2.49 x 2008.1	= 5000.169	
50.9 + 80.7	= 131.6	
14.181 - 3.12		
14.181 + 3.12		
14.18 / 13.21		
15000. / 0.25		
14.18 * 13.21		
3.42 - 2.62		
12621 / 42.07		
62100 / 1.5525		

5. Formula writing review: Fill in the missing name or formula for each compound. Be sure to name it according to the correct system (ionic or covalent)

CoBr ₂	dinitrogen pentoxide
SBr ₂	
lithium thiosulfate	
cobalt arsenate	
NO	SiF ₄
BaO	CS_2
PbO	chromium IV oxide
	strontium hypochlorite

Each chemical equation below shows two elements reacting to form a compound. For each reaction:

- a) classify the compound(s) that form as ionic or covalent.
- b) name the compound(s) that form in the reaction.
- 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.

6.
$$3 I_{2(s)} + 2 Al_{(s)}$$
 -----> $2 AlI_{3 (s)} + energy$ c/d:
 $a.$ _____ $b.$ _____