For this entire worksheet, only use scientific notation if it is necessary for showing the correct number of sig. figs.

**1.** Addition and Subtraction! Perform the following operations, and then report the answer to the correct number of significant figures.

218	Calculator Answer	: Correct sig. fig. answer:
95.13 – 86.93	= 8.2	
1.4571 + 10.296	= 11.7531	
3.1222 - 2.40	= 0.7222	
3.481 - 1.381	= 2.1	
15.0 + 1.28387	= 16.28387	
15 + 1.28387	= 16.28387	
15 + 1.72134	= 16.72134	
23.17 – 23.06	= 0.11	
23.17 – 23.07	= 0.1	
163.43 + 1.4 =		
126 – 3.9 =		
143 + 17 =		
108.77 - 105.38	= 3.39	
108.77 - 105.37	= 3.4	
108.77 – 98.1202	= 10.6498	

2. Multiplication and division! Perform the following operations, and then report the answer to the correct number of significant figures.

\*\*Correct sig. fig. answer:\*

	Calculator Answer:	Correct sig. fig. answe
630.2 g / 703.9 mL	= 0.895297628	
(7.86 g/mL) *(4.55 t	mL) = 35.763	
81.97 / 10.1	= 8.115841584	
10000. / 2500.	= 4	
10000. / 25	= 400	
112.8 x 0.13	= 14.664	
26 x 5.486		
486 / 162		
6000. / 600.		
62.28 * 81.9	= 5100.732	

## 3. Mixed Practice!

Perform the following operations, and then report the answer to the correct number of significant figures.

	Calculator Answer:	Correct sig. fig. answer:
98.16 – 92.178	= 5.982	
92.178 / 98.16	= 0.9390586797	
31.88 / 31.9		
3.3 + 8.2		
3.3 * 8.2		
3.3 / 8.2		
990. /330.		
990 330.		
9900 / 33		
53.222 + 9.48		
62.14 + 71.26		
62.14 / 71.26		
62.14 / 31.07		
12.5 x 160.0	= 2000	
117.914 – 116.2	22 = 1.694	
114.3 – 17.24	= 97.06	
87.49 + 9.2	= 96.69	
25.3 / .00253	3 = 10000	