



## Chem Skills Worksheet #4: Significant Figures Calculations

- A. Complete the multiplication or division problem and provide the final answer with the correct number of significant figures

	Problem	Calculator Answer	Answer Rounded to the correct number of significant figures
1.	$2.698 \times 33.20 \times 1.5611$		
2.	$8.032 / 0.591$		
3.	$(3.2 \times 10^3) (4.21 \times 10^2)$		
4.	$(2.5000 \times 10^6) (3.92 \times 10^{-3})$		
5.	$3 \times 154$		
6.	$3.00 \times 154$		
7.	$1.65 \times 10^2 / (2.3456 \times 10^3)$		
8.	$32.21000 \times 3.540000$		
9.	$5.5 \times 10^5 / 3.3 \times 10^3$		
10.	$2.5 \times 2.34 \times 3.6543$		

- B. Complete the addition or subtraction problem and provide the final answer with the correct number of significant figures.

	Problem	Calculator Answer	Answer Rounded to the correct number of places past the decimal
11.	$7.623 + 85.0 + 9.815$		
12.	$230.72 + 0.00861$		
13.	$10.96 - 5.5$		
14.	$10.96 - 5.555$		
15.	$9.0731 + 0.00078$		
16.	$23.6 - 16.1218$		
17.	$21.5 - 2.5 + 5.5555$		
18.	$32.21000 + 3.540000$		
19.	$5.5 - 3.325$		
20.	$2.5 + 2.34 + 3.6543$		

- C. Complete the indicated operation and provide the final answer with the correct number of significant figures and proper units.

	Problem	Calculator Answer	How many sig figs or places past the decimal?	Rounded answer with units
21.	$0.00598 \text{ mm} + 0.004 \text{ mm}$			
22.	$79.6 \text{ mL} + 0.0168 \text{ mL}$			
23.	$27 \text{ L} - 0.0838 \text{ L}$			
24.	$420 \text{ cm} - 19.11 \text{ cm}$			
25.	$6.77 \text{ kg} \times 0.9 \text{ kg}$			
26.	$16.2 \text{ mL} \times 23.79 \text{ mL}$			
27.	$596,000 \text{ mg} \div 0.0023 \text{ mg}$			
28.	$56.200 \text{ g} \div 260.5 \text{ g}$			
29.	$23 \text{ L} + 1.59 \text{ L} - 3.01 \text{ L}$			
30.	$21.4 \text{ km} \times 0.569 \text{ km} \div 0.9 \text{ Km}$			