Calculations with Sig Figs: Multiplication & Division

Multiplication and Division: Perform each calculation and round to the proper number of significant figures.

- Step 1 Identify the number of SF in each value using the Atlantic-Pacific Rule
- Step 2 Type the values into the calculator and compute
- Step 3 Round your final answer to the same number of SF as the value with the least number of SF

Mathematical Calculation to Perform	# of SF in each quantity	Calculated Answer	Answer Rounded to Correct # of SF
400.0×0.04	4, 1	16	20
2300 ÷ 80.00			
17.40×0.500			
900 ÷ 0.43			
$0.060 \times 0.00250 \times 70.30$			
4500×70.0 ÷ 7.006			
40030×70.00 ÷ 0.000046			

Sig Fig Calculations: Addition & Subtraction

Addition and Subtraction: Perform each calculation and round to the proper number of significant figures.

- Step 1 Write each quantity in a vertical column, taking care to line up the decimals
- Step 2 Does every number in the quantities being calculated have a SF after the decimal?
 - Yes? Final answer is rounded to the same decimal place as the quantity with the fewest number of SF after the decimal. (Example: One quantity has one place after the decimal, the other has three places after the decimal. Final answer should be rounded to one place after the decimal.)
 - No? Final answer is rounded to the last digit before the decimal (the one's position).

Mathematical Calculation to Perform	Place numbers in vertical column, lining up decimals	Calculated Answer	Answer Rounded to Correct # of SF
400.0 + 0.04	400.0 + 0.04	400.04	400.0
95.0 80.00			
17.40 + 0.500			
43 + 70.00 - 0.046			