PRACTICE

Sample	Percent Tin	Deviation, $(x_i - \bar{x})$	Deviation squared, $(x_i - \bar{x})^2$
1	8.21		
2	8.10		
3	8.18		
4	8.25		
5	8.17		
	Mean, $\bar{x}$:		$\sum (x_i - \bar{x})^2 =$

Standard Deviation (show work) _____%

%RSD _____

Percent relative error (%RE) is defined according to equation (3), p 2-3. Express this equation in terms of the measured and accepted values by appropriate substitution of equations (1) and (2) into equation (3).

Use the previously derived equation for %RE along with the percent tin data in the practice table and determine %RE for each value.

		EXAMPLE	PRACTICE
Accepted value		7.87%	8.22%
Percent relative error			
Sample	1	0.1%	%
	2	− 0.5%	%
	3	0.0%	%
	4	1.0%	%
	5	− 0.1%	%