

6) Imagine a different problem such that two different solutions were being mixed. If a 10% acid solution were to be mixed with a 20% acid solution, what would be a reasonable expectation for the percentage of acid of the mixture? Choose one of the following answers and defend it using a thorough rationale.

- a) The mixture must be less than 10% in concentration.
- b) The mixture must be between 10% and 20% in concentration.
- c) The mixture must be greater than 20% in concentration.

For each of the problems below, go to <http://www.mathguide.com/cgi-bin/quizmasters/Chemistry2.cgi> and do a problem by a) determining the given information, b) filling in the chemistry table, c) constructing two systems of equations, d) solving the system of equations, and e) writing a sentence that describes the solution.

7) Weak Solution: _____
 Strong Solution: _____
 Mixture: _____

8) Weak Solution: _____
 Strong Solution: _____
 Mixture: _____

	Volume	Percent	Amount of Acid
Strong Solution			
Weak Solution			
Total Mixture			

	Volume	Percent	Amount of Acid
Strong Solution			
Weak Solution			
Total Mixture			

System of equations:

System of equations:

Solution (Sentence):

Solution (Sentence):