Worksheet 16: Final Exam Review IV

1. What is quality assurance?

2. What is an external standard? How does it relate to a calibration curve?

3. What are the different types of data and what are they used for?

4. What do the use objectives for an analysis tell us?

5. What type of specifications might you want to make for an analytical procedure?

6. What is the difference between a false positive and a false negative?

7. What is the difference between selectivity and sensitivity?

8. How can we determine the sensitivity for an analytical procedure that generates a calibration curve?

9. What are the differences between method blanks, reagent blanks, and field blanks?

10. In the context of a sample, what does the matrix refer to?

11. What does adding a spike to your solution entail? How do you calculate spike recovery?

12. What is the use of a performance test sample?

13. What is method validation?

14. What are some ways to demonstrate the accuracy of a method?

15. What are the implications of the Horwitz Trumpet?

16. How do you calculate the lower limit of quantitation for an analytical method? What about the detection limit?

17. Under what conditions is it necessary to use the method of standard additions?

18. What is an internal standard and when should it be used?