

**A.P. Statistics**  
**Assignment 3.4**

**Remember to show your thinking through your work.**

- 1) Consider the following scenario, then describe how you might conduct a study using an SRS, convenience sample and voluntary response sample.

You are interested in parents' opinion of the war in Iraq. Your population is parents of high school students. Your question is, "Do you believe that the war in Iraq will lead to peace in the Middle East?"

<SRS>

<convenience sample>

<voluntary response sample>

2) For each of the following sampling designs, identify each as an SRS, convenience sample, or voluntary response sample. Be sure to explain/justify your choice. Your question is about the quality of this year's cafeteria food at school.

a) You decide to include your 3<sup>rd</sup> and 4<sup>th</sup> period classmates in your sample.

<type answer here>

b) You place a stack of 50 surveys and a box in which to place completed surveys on a table in the entryway to the cafeteria.

<type answer here>

c) You number all the students that enter the cafeteria on a given day and randomly select 45 of them to take the survey after they eat their lunch.

<type answer here>

c) You ask the first 40 students that enter the cafeteria on a given day.

<type answer here>