

## Chapters 1 and 4 .5 point Extra Credit

## Us

| se the following description to answer questions 1 to 5.  nutritionist investigated the effectiveness of different types of diets. She measured the weight loss 240 volunteers who were on one of three diets: 1) the protein diet, 2) the carbohydrate diet, and 3) eight watchers diet. The nutritionist compared the average weight loss obtained in each group. |  |
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| 1.  | What is the independent variable and what are the levels of the independent variable?  |
| 2.  | What is the dependent variable and what scale of measurement is it measured in?  |
| 3.  | Describe a better sampling procedure the researcher should have used. (Be specific in your description.)   |
| 4.  | Suppose the researcher found that people, on the average, lost more weight on one type of diet versus another. Can you think of any possible <i>lurking or confounding</i> variables that might explain this result? |
| 5.  | What advantage is there in using a matched pairs or within-subject experimental design?  |