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Student Number

University of Toronto Mississauga STA442/1008 2012 Quiz 1

Please read this newspaper article and answer the questions on the reverse side. In case you are unfamiliar with the term "pedophilia," the pedophiles in this study were convicted of sexual crimes against children.



people more susceptible to the problem if they are victims of outside influences, like child abuse, the study suggests.

- 1. (2 Points) Is the study observational, or experimental? Choose one. No explanation is necessary. (Observational)
- 2. (2 Points) There are two primary variables in this study. It looks like one is categorical and one is quantitative. What are they? Write your answers below. (The categorical variable is pedophile vs. non-sexual offender. The quantitative variable is volume of white matter in the brain.)
- 3. (3 Points) In this study, it may be a bit tricky to figure out which variable is independent and which variable is dependent. Let us say that the "independent" variable is the one that in theory, may be contributing to (or causing) the dependent variable. From this viewpoint,
 - What is the main independent variable? (The independent variable is pedophile vs. non-sexual offender.)
 - What is the main dependent variable? (Dependent variable is volume of white matter in the brain.)
- 4. (3 Points) One comment by an outside researcher implies that there could be confounding variables involved. What is the comment? Please copy the exact words from the article. You do not have to say what the confounding variables might be. Just copy the words from the article below. The correct answer is one sentence, or a part of one sentence. Marks will be deducted for extra words.

 $("\ldots$ the research only shows a correlation between the brin deficiency and pediphilia, not necessarily a cause-and-effect relationship.")