Chapter 13

1. When the assumption of sphericity is violated what action is needed?

   a. Correct the model degrees of freedom.

   b. Correct the error degrees of freedom.

   c. Do both a and b.*

   d. Correct the *F*-ratio.

2. A nutritionist conducted an experiment on memory for dreams. She wanted to test whether it really was true that eating cheese before going to bed made you have bad dreams. Over three nights, the nutritionist fed people different foods before bed. One night they had nothing to eat, a second night they had a big plate of cheese, and the third night they had another dairy product, milk, before bed. All people were given all foods at some point over the three nights. The nutritionist measured heart rate during dreams as an index of distress. How should these data be analysed?

   a. One-way independent ANOVA.

   b. One-way repeated measures ANOVA.*

   c. Three-way repeated measures ANOVA.

   d. Three-way independent ANOVA.