

- We conduct an ANOVA and find a significant F-ratio.
- What does it mean?
- The single espresso people could have performed better from the double espresso and water group.
- Or maybe they performed the same as the water group but better than the double espresso group.
- Or maybe (unexpectedly) they performed worse than both the double espresso and water groups.
- To know what is the case we need to do planned contrasts (similar to 1 tailed tests) or post hoc tests (similar to 2 tailed tests).

- We know that at least one of our means differs from at least one of our other means but (so far) we don't know where that difference lies.....
- Luckily things easy for us as we can conduct what are known as post hoc tests. These will tell us which means differ from which other means (and allow us to begin to tell a story....)