Do an Experiment



Task Statement 1

- 1. Choose a question that you can investigate by conducting an experiment. You should include at least 8 subjects.
 - a. What is the population?
 - b. What is the response variable?
 - c. What are the treatments?
 - d. How will you divide subjects into groups?
- 2. Gather your data. What is the mean of each group? Without analyzing the results further, note whether the treatment seems to have an effect.
- 3. Analyze your data, using simulations. How likely is it that the results happened by chance?
- 4. What are possible sources of error in your experiment?
- 5. Do you think the treatment caused a response? What additional information would help you decide?



Do an Experiment



Task Statement 2

- 1. What factors might help someone concentrate? What factors might distract someone?
- 2. Choose a question that you can investigate by conducting an experiment. You should include at least 8 subjects.
 - a. What is the population?
 - b. What is the response variable?
 - c. What are the treatments?
 - d. How will you divide subjects into groups?
- 3. Gather your data. What is the mean of each group? Without analyzing the results further, note whether the treatment seems to have an effect.
- 4. Analyze your data, using simulations. How likely is it that the results happened by chance?
- 5. What are possible sources of error in your experiment?
- 6. Do you think the treatment caused a response? What additional information would help you decide?

