**ATTENTION STUDENT**: If you are found to have plagiarized any part of your PsychSim assignment, you will receive a 0 for the assignment and may be formally reported to KPU. If you wish to quote the source provided or any other webpage, you MUST cite the source using APA formatting. To avoid plagiarism, write all answers **in your own words**.

For more information on plagiarism and cheating, please visit <https://libguides.kpu.ca/academicintegrity/plagiarism> to study the videos and tutorials available.

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**Name this file using the following format:**

**LastnameFirstname\_Section\_AssignmentName**

For example: SmithJohn\_A54\_AuditorySystem

**PsychSim Online: Visual Illusions**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Course/Section: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** **Instructor: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

In the following assignment, you will be introduced to 4 different visual illusions through either an activity, video, or a short article. View the contents of the links to answer the questions.

**Müller-Lyer Illusion**

Complete the following activity and read : <https://michaelbach.de/ot/sze-muelue/>

1. How accurate were you in estimating an equal distance between the lines on your first try? After dragging the moving arrowhead to the center, select “Show result” and record your percentage here.
2. Were you able to get it closer on subsequent attempts?
3. **In your own words**, explain how the Muller-Lyer illusion relates to depth perception.

**Ponzo Illusion**

Complete the following activity (read the Background and Instructions tabs at the top of the page, and then select Illustration to try it yourself): <https://isle.hanover.edu/Ch07DepthSize/Ch07Ponzo.html>

1. How close were you to matching the top and bottom line? The number in the 3rd line of the results tells you how close you were (“Thus, the top line is \_\_\_ of the bottom line”).
2. Size constancy is the idea that humans are able to perceive two objects to be the same size even though they are different distances making their size on the retina to be different. **In your own words**, explain how the Ponzo illusion relates to the idea of size constancy.

**Horizontal-Vertical Illusion**

Complete the following activity (at the bottom of the page): <http://elvers.us/perception/hv/>

1. The webpage outlines three possible explanations for the horizontal-vertical illusion. Which one do you think seems most likely, or which one do you think explains the illusion *best*? Explain your reasoning.

**Poggendorff Illusion**

Complete the following activity (at the bottom of the page): <http://elvers.us/perception/Poggendorff/>

1. How close were your adjustments in the activity? To reveal the activity’s solution, select “Show line in gap” and record your “Error” here.
2. The webpage outline three possible explanations for the Poggendorff illusion. Which one do you think seems most likely, or which one do you think explains the illusion *best*? Explain your reasoning.
3. After learning about these illusions, do you trust that your brain makes accurate assumptions about the world around you? Why or why not?