VISUAL PERCEPTION & ILLUSIONS

# OPTICAL ILLUSION PERCEPTION LAB

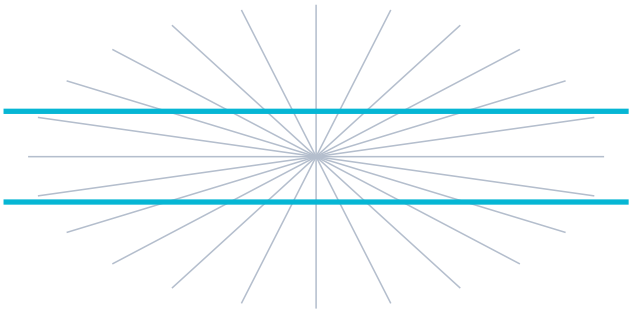
4 Classic Geometric Illusions * Geometric Curvature, Cafe Wall, Kanizsa & Arrow Perception

**SOLVER TIME & SCORE**

Start: ___:___ Stop: ___:___

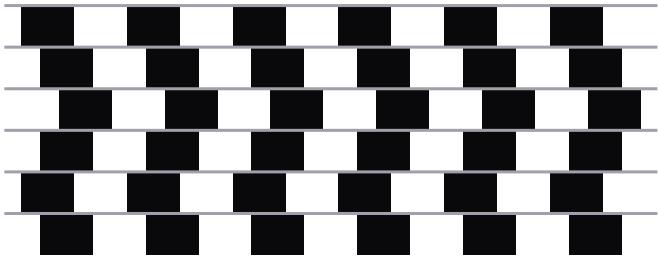
Difficulty: [ ] Easy [ ] Med [ ] Hard

## ILLUSION 1: THE HERING CURVATURE PARADOX



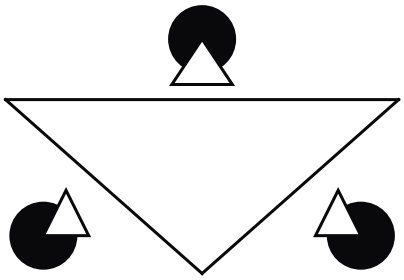
*Are the cyan lines parallel? [ ] Curved [ ] Perfectly Straight*

## ILLUSION 2: CAFE WALL SLOPING CHECKERBOARD



*Are horizontal mortar lines parallel? [ ] Sloped [ ] Parallel*

## ILLUSION 3: KANIZSA ILLUSORY CONTOURS



*Does a bright white triangle exist in the center? [ ] Yes [ ] Pure Illusion*

## ILLUSION 4: MULLER-LYER INVERTED FINS



*Which cyan shaft is longer? [ ] Top [ ] Bottom [ ] Exactly Equal (55 mm)*

## GESTALT VISUAL PERCEPTION LAB, BRAIN COGNITION & MEASUREMENT LOG

### GESTALT PRINCIPLES

Law of Closure: Mind finishes figures

Figure-Ground: Reversible contours

Law of Proximity: Grouping near items

Invariance: Recognizing rotated shapes

V1 Visual Cortex: Edge detection

### NEUROLOGICAL MECHANISMS

Lateral Inhibition: Retinal ganglia contrast

Orientation selectivity in V1 neurons

Depth cues warp 2D linear perspective

Top-down cognitive predictive processing

Illusions prove brain computes reality

### PERCEPTION SCIENTIST LOG

Researcher Name: _____

Measurement Tool: [ ] Metric Ruler

All 4 Measurements Equal: [ ] YES

Cognitive Error Recognized: [ ] YES

Psychology Stamp: * * * * *

**CALIBRATED METRIC RULER FOR OBJECTIVE PERCEPTION VERIFICATION (15 CM):**

