# Googly Eyes Drawing: Dome, Highlight, and Offset Pupil

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a googly eye with a dome 30 mm wide and a pupil 12 mm wide offset 4 mm to the left. Check the right margin.

Answer: Dome half-width 15 mm, pupil half-width 6 mm. Offset 4 mm left plus 6 mm equals 10 mm, leaving a 5 mm margin on the left and a larger margin on the right. The pupil stays inside.

Reason: The margin is the dome half-width minus the sum of the offset and pupil half-width. 15 minus 10 equals 5 mm on the offset side.

Check: Measure the dome width, pupil width, and offset. Confirm the pupil edge does not touch the dome outline.

Task 2

Draw a googly eye with a dome 50 mm wide, a pupil 20 mm wide offset 8 mm to the right, and a highlight 6 mm wide on the upper left. Check the highlight size and gap.

Answer: Pupil half-width 10 mm; offset 8 mm plus 10 mm equals 18 mm, leaving a 7 mm margin on the right. Highlight 6 mm is smaller than the pupil 20 mm. Keep a visible gap between the highlight and the pupil.

Reason: The highlight must be smaller than the pupil and separate. The margin check uses the same half-width arithmetic.

Check: Measure the highlight and pupil. Confirm the highlight does not touch the pupil edge.

Task 3

Draw a googly eye with a dome 36 mm wide, a pupil 14 mm wide offset 5 mm to the left, and three motion lines on the right. Check that the motion lines stay outside the dome.

Answer: Dome half-width 18 mm; pupil half-width 7 mm; offset 5 mm plus 7 mm equals 12 mm, leaving a 6 mm margin on the left. Three motion lines on the right must start outside the dome outline and not cross it.

Reason: Motion lines are separate marks outside the dome. The margin arithmetic confirms the pupil placement.

Check: Trace the dome outline and confirm no motion line crosses it. Measure the pupil margin.

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Original tasks 4 / complete keys

Task 4

Draw a googly eye with a dome 44 mm wide, a pupil 18 mm wide offset 7 mm to the right, a highlight 5 mm wide on the upper left, and two motion lines on the left. Check all margins and separations.

Answer: Dome half-width 22 mm; pupil half-width 9 mm; offset 7 mm plus 9 mm equals 16 mm, leaving a 6 mm margin on the right. Highlight 5 mm is smaller than the pupil and separate. Two motion lines on the left stay outside the dome. All checks pass.

Reason: Each check uses simple subtraction and comparison. The pupil margin is 22 minus 16 equals 6 mm. The highlight is smaller than the pupil.

Check: Measure dome, pupil, offset, and highlight. Confirm the pupil margin, highlight gap, and motion-line placement.

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Source rubric / reflection

- [ ] Dome outline is smooth and the base is level.
- [ ] Pupil is fully inside the dome with a visible margin.
- [ ] Pupil is offset from the dome center in a clear direction.
- [ ] Highlight is smaller than the pupil and separate from it.
- [ ] Motion lines are outside the dome and do not cross other shapes.
- [ ] Measurements use one consistent unit and are recorded.
- [ ] Valid alternatives are accepted if shapes remain separate and readable.

Reflection: What did you check, what did you change, and what will you try next?