Eye Placement on a Front-Face Grid: Line and Spacing Rules

Original tasks 1, 2, 3 / complete keys

Task 1

A front-facing head is 10 squares wide at the eye line. Each eye is 2 squares wide and the gap is 2 squares. What is each margin?

Answer: Each margin is 2 squares.

Reason: Total eye span is 2 + 2 + 2 = 6 squares. Head width minus span is 10 - 6 = 4 squares. Divide by two margins: 4 / 2 = 2 squares each.

Check: Add margins and span: 2 + 2 + 2 + 2 + 2 = 10 squares, matching the head width.

Task 2

A head is 14 squares tall from top to chin. Where is the eye line, and how many squares from the top?

Answer: The eye line is at the vertical midpoint, 7 squares from the top.

Reason: Midpoint is half the height: 14 / 2 = 7 squares.

Check: Count 7 squares down from the top and 7 squares up from the chin; both meet at the same line.

Task 3

On an eye line 12 squares wide, a student marks a 3-square left margin, a 2-square left eye, a 3-square gap, a 2-square right eye, and a 2-square right margin. Does this satisfy the spacing rule? Explain.

Answer: No. The gap is 3 squares while each eye is 2 squares, and the margins are unequal (3 and 2).

Reason: The gap should be about one eye width, which is 2 squares here. Margins should be equal. The total is 3 + 2 + 3 + 2 + 2 = 12, so the width fits, but the spacing rule is not met.

Check: Compare gap to eye width (3 vs 2) and compare margins (3 vs 2). Recompute equal margins as (12 - 6) / 2 = 3 squares each with a 2-square gap.

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Original tasks 4 / complete keys

Task 4

A student places irises on the vertical center of each eye socket but shifts both irises one square toward the inner corners. Is this acceptable? State what must be done.

Answer: Yes, if the student states the inward-shift convention and applies it consistently to both eyes.

Reason: Iris placement is a convention, not a single universal rule. The rubric allows valid alternatives when labeled and consistent.

Check: Check that both irises are shifted by the same amount and that the convention is written next to the drawing.

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Source rubric / reflection

- [ ] Eye line is at the measured vertical midpoint of the head.
- [ ] Both eyes sit on the eye line.
- [ ] Gap between inner corners is approximately one measured eye width.
- [ ] Left and right margins are equal within one grid square or 0.5 cm.
- [ ] Iris placement follows a stated convention and is consistent in both eyes.
- [ ] Measurements or grid counts are recorded and checkable.
- [ ] Valid alternative conventions are labeled rather than penalized.

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