Pumpkinhead Drawing: Construct a Face on a Pumpkin Form

Original tasks 1, 2, 3 / complete keys

Task 1

A pumpkin oval is 12 cm wide and 9 cm tall. The horizontal midline is 4.5 cm from the top. Place eye centers one-quarter of the width from the vertical midline. What is each eye center distance from the midline, and what is the eye line height from the top?

Answer: Each eye center is 3 cm from the vertical midline. The eye line is 4.5 cm from the top.

Reason: One-quarter of 12 cm is 3 cm. The horizontal midline is halfway between top and bottom, so 9 cm divided by 2 is 4.5 cm.

Check: Measure both eye center distances to the vertical midline; they should both be 3 cm. Measure from the top of the oval to the eye line; it should be 4.5 cm.

Task 2

On a pumpkin 10 cm wide and 8 cm tall, the eye line is at 4 cm from the top. The nose top is one-third of the way from the eye line to the base. How far below the eye line is the nose top?

Answer: The nose top is 1.33 cm below the eye line, approximately.

Reason: The distance from the eye line to the base is 8 cm minus 4 cm, which is 4 cm. One-third of 4 cm is about 1.33 cm.

Check: Measure from the eye line down to the nose top; it should be about 1.33 cm. Multiply by 3 to confirm it returns to about 4 cm.

Task 3

A pumpkin is 14 cm wide. You want each eye to be one-eighth of the width. What is each eye width, and what is the total width of both eyes?

Answer: Each eye is 1.75 cm wide, and both eyes together are 3.5 cm wide.

Reason: One-eighth of 14 cm is 1.75 cm. Two eyes at 1.75 cm each total 3.5 cm.

Check: Measure each eye width; both should be 1.75 cm. Add them to confirm 3.5 cm, which is one-quarter of the pumpkin width.

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Original tasks 4 / complete keys

Task 4

A pumpkin oval is 9 cm tall. The eye line is at 4.5 cm from the top. The mouth top is halfway between the nose bottom and the base. If the nose bottom is 2 cm below the eye line, how far below the eye line is the mouth top?

Answer: The mouth top is 3.25 cm below the eye line.

Reason: The nose bottom is 2 cm below the eye line, so it is 6.5 cm from the top. The base is 9 cm from the top. Halfway between 6.5 cm and 9 cm is 7.75 cm from the top. Subtract the eye line height of 4.5 cm to get 3.25 cm below the eye line.

Check: Measure from the eye line to the mouth top; it should be 3.25 cm. Measure from the mouth top to the base; it should be 1.25 cm, and from the nose bottom to the mouth top should be 1.25 cm, confirming the halfway placement.

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Source rubric / reflection

- [ ] Pumpkin form is a wide oval with a clear vertical midline and a horizontal midline halfway between top and bottom.
- [ ] Four to six ridge lines bow outward, are spaced evenly, and meet near stem and base without crossing the midline.
- [ ] Eye centers sit on or just above the horizontal midline and are placed symmetrically about the vertical midline within the chosen tolerance.
- [ ] Nose is centered on the vertical midline with its top about one-third down from the eye line to the base.
- [ ] Mouth is centered below the nose with its top about halfway between nose bottom and base.
- [ ] Feature placement is checked with at least one measurement or paper-strip comparison, and the chosen proportions are stated.
- [ ] Expression changes are made by small feature adjustments while keeping the axes fixed; valid alternatives are accepted if proportions are consistent and checkable.

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