Draw September Birth Flowers: Aster and Morning Glory Form Construction

Original tasks 1, 2 / complete keys

Task 1

Construct an aster with an outer circle diameter of 10 cm and a disk diameter of 4 cm. Use 16 guide marks. Draw two offset petal layers and add disk texture ticks.

Answer: A 10 cm outer circle, a 4 cm concentric disk, 16 evenly spaced guide marks, 16 first-layer petals from disk to marks, 16 second-layer petals offset between the first, and short radial ticks inside the disk.

Reason: The disk is 4 cm of a 10 cm outer diameter, a hypothetical two-fifths ratio. Sixteen marks give even spacing. Offsetting the second layer creates overlap.

Check: Measure both circles. Count 16 petals in each layer. Confirm the second layer is offset and that ticks stay inside the disk.

Task 2

Construct a morning glory with a face diameter of 9 cm and a throat diameter of 4.5 cm. Divide the face into five sectors and draw five creases plus a wavy rim. Add a narrowing tube and calyx.

Answer: A 9 cm face circle, a 4.5 cm concentric throat circle, five equal sectors, five soft creases from throat to edge, a wavy rim between creases, two narrowing side lines for the tube, and a small calyx at the tube end.

Reason: The throat is half the face diameter, a hypothetical ratio. Five sectors match the five creases. The tube narrows behind the face.

Check: Measure face and throat. Count five creases meeting at the throat. Verify the tube narrows and ends at a calyx.

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Original tasks 3, 4 / complete keys

Task 3

Draw an aster with an outer circle of 7 cm and a disk of 2 cm. Use 10 guide marks. Then draw a morning glory face of 6 cm with a throat of 3 cm and five creases. Label the disk, throat, and calyx with lowercase letters at consistent x-height.

Answer: Aster: 7 cm outer circle, 2 cm disk, 10 marks, two offset petal layers, disk ticks. Morning glory: 6 cm face, 3 cm throat, five creases, wavy rim, narrowing tube, calyx. Labels use lowercase letters with baseline-to-midline x-height.

Reason: The two flowers are constructed separately with hypothetical ratios. Labels follow the stated x-height convention and may use any letter style.

Check: Measure circles and count petals and creases. Check that labels sit on a baseline with consistent x-height and do not overlap forms.

Task 4

Construct an aster with an outer circle of 12 cm and a disk of 4 cm using 20 guide marks and three petal layers. Construct a morning glory with a face of 8 cm, throat of 4 cm, five creases, and a tube that narrows to 1 cm at the calyx. Describe one valid alternative choice.

Answer: Aster: 12 cm outer circle, 4 cm disk, 20 marks, three petal layers with petals offset between adjacent layers (20 petals in the first layer, with subsequent layers offset between the previous layer's petals), disk ticks. Morning glory: 8 cm face, 4 cm throat, five creases, wavy rim, tube narrowing from throat to 1 cm at calyx. A valid alternative is using a different letter style for labels while keeping x-height consistent, or varying petal lengths slightly while preserving radial balance.

Reason: The disk is one-third of the outer diameter and the throat is half the face diameter, both hypothetical. Three layers require offsetting each layer. The tube narrows to a measured 1 cm end.

Check: Measure all circles and the tube end. Count 20 petals per layer and five creases. Confirm offsets and that the alternative choice does not break the x-height convention or radial balance.

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Source rubric / reflection

- [ ] Aster shows a distinct disk and at least two offset petal layers.
- [ ] Morning glory shows a flaring face, a throat circle, five creases, and a narrowing tube ending in a calyx.
- [ ] Construction lines are light and final contours are darker and continuous.
- [ ] Labels use lowercase letters with consistent x-height from baseline to midline; letter style may vary.
- [ ] Proportions are internally consistent and any numerical values are labeled as hypothetical examples.

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