Draw a Bouquet: Bloom Clusters, Wrap, Ribbon, and Stems

Original tasks 1, 2, 3 / complete keys

Task 1

Using an x-height of 4 mm, calculate the across-size of a focal cluster that is 4 x-heights, a medium cluster that is 3 x-heights, and a small cluster that is 2 x-heights. State the minimum gap between clusters.

Answer: Focal = 16 mm, medium = 12 mm, small = 8 mm. Minimum gap = 1 x-height = 4 mm.

Reason: Multiply each x-height count by 4 mm. The gap rule is at least 1 x-height, so 4 mm.

Check: Recompute 4 x 4 = 16, 3 x 4 = 12, 2 x 4 = 8, and confirm the gap is 4 mm.

Task 2

A wrap point is 30 mm below the lowest bloom. If stem lines continue 6 x-heights below the wrap point and x-height is 5 mm, how long is the stem section below the wrap? If three stems are spaced half an x-height apart, what is the total spacing between the first and third stem line?

Answer: Stem section = 30 mm. Spacing between first and third stem line = 5 mm.

Reason: 6 x 5 mm = 30 mm. Half an x-height = 2.5 mm. Two gaps between three lines = 2 x 2.5 mm = 5 mm.

Check: Confirm 6 x 5 = 30 and 2 x 2.5 = 5.

Task 3

Describe a bow that meets the rubric: list the parts and their hypothetical sizes using an x-height of 6 mm. Include knot, loops, and tails.

Answer: Knot about 1 x-height = 6 mm across; two loops each about 2 x-heights = 12 mm wide; two tails each about 3 x-heights = 18 mm long. The bow overlaps the wrap and stems slightly.

Reason: Use the lesson proportions: knot 1 x-height, loops 2 x-heights, tails 3 x-heights. Multiply by 6 mm.

Check: Count one knot, two loops, two tails; verify 1 x 6 = 6, 2 x 6 = 12, 3 x 6 = 18, and check overlap.

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Original tasks 4 / complete keys

Task 4

A student draws three bloom clusters with gaps of 3 mm, 5 mm, and 7 mm using an x-height of 5 mm. Which gaps meet the minimum gap rule? If the focal cluster is 18 mm across, how many x-heights is that?

Answer: The 5 mm and 7 mm gaps meet the rule; 3 mm does not. The focal cluster is 18 / 5 = 3.6 x-heights.

Reason: Minimum gap is 1 x-height = 5 mm. Compare each gap. Divide 18 mm by 5 mm for x-height count.

Check: Check 3 < 5, 5 = 5, 7 > 5, and compute 18 / 5 = 3.6.

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Source rubric / reflection

- [ ] Bloom clusters: 0 = scattered or missing groups; 1 = three clusters present but gaps or overlaps unclear; 2 = three distinct clusters with about one-third overlap and at least 1 x-height gaps.
- [ ] Wrap shape: 0 = missing or not a holder shape; 1 = present but too wide, too short, or unclear; 2 = smooth wrap from lower blooms to a narrow point covering about the lower third.
- [ ] Stem grouping: 0 = scattered or missing; 1 = some convergence but spacing uneven; 2 = three to five stems converge at the wrap point and continue as parallel lines spaced about half an x-height.
- [ ] Ribbon bow: 0 = missing parts or no overlap; 1 = one knot, two loops, two tails but unbalanced or no overlap; 2 = all parts present, slight overlap with wrap and stems, balanced placement.
- [ ] Line clarity: 0 = construction marks obscure final lines; 1 = final lines visible but messy; 2 = final outlines darkened and construction marks lightly erased.

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