Fir Tree Drawing Step by Step: Conical Tiers and Needle Texture

Original tasks 1, 2, 3, 4 / complete keys

Task 1

Draw a fir tree 10 cm tall with four tiers. Make the lowest tier 5 cm wide and reduce each higher tier by 1 cm. Add a 1.5 cm spire. State the tier widths.

Answer: Tier widths: 5 cm, 4 cm, 3 cm, 2 cm; spire 1.5 cm.

Reason: Equal reduction per tier creates a steady cone; the spire continues the taper.

Check: Measure widths and confirm each is 1 cm narrower; confirm spire is narrower than the top tier.

Task 2

A drawing has tiers 7 cm, 6 cm, 6 cm, and 4 cm wide from bottom to top. Identify the proportion error and give corrected widths using a 1 cm reduction.

Answer: The third tier should be 5 cm, not 6 cm. Corrected: 7 cm, 6 cm, 5 cm, 4 cm.

Reason: A repeated width breaks the conical taper; equal reduction restores it.

Check: Subtract consecutive widths; all differences should be 1 cm.

Task 3

Describe and then draw a needle-texture drill: three clusters of five short strokes each along a drooping branch line, with denser strokes near the trunk. State the stroke length relative to a 3 cm tier.

Answer: Strokes about 0.5 cm long, clustered in fives, denser near the trunk and looser at tips.

Reason: Short strokes relative to tier height read as needles; clustering follows branch lines.

Check: Measure a sample stroke and confirm it is about one-sixth of tier height; count five strokes per cluster.

Task 4

Draw a fir tree 15 cm tall with five tiers. The lowest tier is 7 cm wide, each higher tier is 1.2 cm narrower, and the spire is 2 cm. State widths and check the cone.

Answer: Widths: 7 cm, 5.8 cm, 4.6 cm, 3.4 cm, 2.2 cm; spire 2 cm.

Reason: Subtracting 1.2 cm per tier gives a consistent narrowing; the spire is narrower than the top tier.

Check: Measure each width and confirm differences are 1.2 cm; confirm spire width is less than 2.2 cm.

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Source rubric / reflection

- [ ] Conical silhouette: tiers narrow upward and the top ends in a spire.
- [ ] Tier structure: four or five overlapping tiers with lower tiers taller.
- [ ] Needle texture: short clustered strokes along branch lines, density varied.
- [ ] Proportion: tier widths decrease consistently; no tier wider than the one below.
- [ ] Valid alternatives: any needle style that meets the short-stroke cluster convention is accepted.

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