Pencil Pine Tree Drawing: Tiered Branches and Needle Strokes

Original tasks 1, 2 / independent work

Task 1

A pine tree has a 16 cm trunk divided into four equal tiers. The lowest tier extends 5 cm each side. Each higher tier is 1 cm shorter per side. What is the total width of the second tier from the bottom?

Task 2

You plan needle strokes 1 cm long on lower branches and 0.6 cm long on upper branches. If a lower branch has 12 stroke groups and each group uses 3 strokes, how many lower-branch strokes are drawn?

Pencil Pine Tree Drawing: Tiered Branches and Needle Strokes

Original tasks 3, 4 / independent work

Task 3

A cone is drawn as an oval 2 cm tall and 1 cm wide. If you place three cones per tier on a four-tier tree, how many cones are drawn in total?

Task 4

A branch line droops 1 cm over a 6 cm horizontal run. If you shorten the horizontal run to 3 cm while keeping the same droop ratio, what is the new droop in centimetres?