Watchtower Drawing: Base, Roof, and Window Construction

Original tasks 1, 2 / complete keys

Task 1

Front view: base width 4 cm, tower height 8 cm, base band 1 cm, roof overhang 0.5 cm per side, ridge 2 cm above tower top, one centered window 1 cm by 1.5 cm placed 1.5 cm below tower top. Describe the drawing and check proportions.

Answer: Draw a 4 cm base, centerline, 8 cm tower rectangle, 1 cm base band, ridge 2 cm above top, eaves 0.5 cm beyond each side, and a centered 1 cm by 1.5 cm window 1.5 cm below the top. Check: height 8 cm is twice base width 4 cm; overhangs are equal at 0.5 cm; window is centered.

Reason: The tower height is twice the base width, so the proportion is tall. Equal overhangs and a centered window keep symmetry. The window top is measured downward from the tower top for consistency.

Check: Measure base width, tower height, both overhangs, and window centering. Confirm height equals twice width and overhangs match within a few millimeters.

Task 2

Side view: base width 3 cm, tower height 9 cm, base band 1 cm, roof overhang 1 cm per side, ridge 3 cm above tower top, two windows each 1 cm by 2 cm stacked with 1 cm gap, top window 2 cm below tower top. Describe and check.

Answer: Draw a 3 cm base, centerline, 9 cm tower, 1 cm base band, ridge 3 cm above top, eaves 1 cm beyond each side. Mark top window 2 cm below tower top, then a second window 1 cm below the first. Check: height 9 cm is three times base width 3 cm; overhangs equal; windows share width and are vertically aligned.

Reason: A narrower base makes the tower look taller. Stacked windows need a consistent gap and alignment. The ridge height is one third of the tower height in this example.

Check: Measure both overhangs, window widths, and the 1 cm gap. Confirm windows are vertically aligned on the centerline.

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Original tasks 3, 4 / complete keys

Task 3

Front view with paired windows: base width 6 cm, tower height 12 cm, base band 1.5 cm, roof overhang 1 cm per side, ridge 4 cm above tower top, two windows side by side each 1 cm by 2 cm with 1 cm between them, centered as a pair, tops 3 cm below tower top. Describe and check.

Answer: Draw a 6 cm base, centerline, 12 cm tower, 1.5 cm base band, ridge 4 cm above top, eaves 1 cm beyond each side. Center the pair so the gap midpoint is on the centerline. Each window is 1 cm by 2 cm with a 1 cm gap, tops 3 cm below the tower top. Check: height 12 cm is twice base width 6 cm; overhangs equal; pair is centered and windows share height.

Reason: Pairing windows requires centering the group, not each window. Equal widths and a fixed gap make the pair read clearly. The tower proportion remains tall.

Check: Measure the gap midpoint against the centerline, both overhangs, and both window heights. Confirm the pair is centered and windows align.

Task 4

Front and side views together: front base width 5 cm, side base width 4 cm, tower height 10 cm for both, base band 1 cm, roof overhang 0.75 cm per side on both views, ridge 3 cm above tower top on both, one window 1 cm by 2 cm centered on each view with top 2 cm below tower top. Describe and check consistency.

Answer: Draw both views with the same tower height, base band, overhang, ridge height, and window size. The front base is 5 cm and the side base is 4 cm. Center one window on each view at the same height. Check: both tower heights are 10 cm; overhangs are 0.75 cm on both; window tops are 2 cm below the tower top in both views.

Reason: Consistent heights and window positions make the two views agree. Different base widths are acceptable because front and side depths can differ, but shared vertical measurements must match.

Check: Compare tower heights, ridge heights, overhangs, and window tops across both views. Confirm shared values match within your chosen tolerance.

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Source rubric / reflection

- [ ] Tower body is a clear rectangle with a base width and height that are consistently proportioned.
- [ ] Base band has uniform thickness and sits below the tower body.
- [ ] Roof has two eaves and a ridge; left and right overhangs match within the chosen tolerance.
- [ ] Ridge lies on the centerline or is visibly symmetrical.
- [ ] Window openings are clear, consistently shaped, and aligned where paired.
- [ ] Front and side views use the same window heights and widths.
- [ ] Construction lines are erased or light; final outlines are dark and readable.
- [ ] Handwriting, if present, is consistent; x-height is baseline to midline and letter styles may vary.

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