Draw Babylon: City Walls and Tower Construction

Original tasks 1, 2, 3 / complete keys

Task 1

A frame is 24 cm wide and 18 cm high. The horizon is 6 cm from the bottom. A front wall band is 3 cm high starting 7 cm from the bottom. What is the top edge of the front wall band measured from the bottom?

Answer: 10 cm from the bottom.

Reason: Start at 7 cm and add the 3 cm band height: 7 + 3 = 10 cm.

Check: Measure the band on your drawing with a ruler; the top edge should be 10 cm above the bottom edge of the frame.

Task 2

A tower footprint is 5 cm wide and centered at 12 cm from the left on a 24 cm wide frame. What are the left and right edges of the footprint?

Answer: Left edge 9.5 cm, right edge 14.5 cm.

Reason: Half of 5 cm is 2.5 cm. Subtract from the center for the left edge: 12 - 2.5 = 9.5 cm. Add for the right edge: 12 + 2.5 = 14.5 cm.

Check: Measure from the left frame edge to each side of the tower footprint; the distance between them should be 5 cm.

Task 3

A rear wall band is 2 cm high and its bottom edge is 1.5 cm above the front wall band top edge. If the front wall band top edge is 10 cm from the bottom, what is the rear wall band top edge from the bottom?

Answer: 13.5 cm from the bottom.

Reason: Rear bottom edge = 10 + 1.5 = 11.5 cm. Add the 2 cm band height: 11.5 + 2 = 13.5 cm.

Check: Measure upward from the front wall top edge by 1.5 cm, then add 2 cm for the rear band height; confirm the total is 13.5 cm above the bottom.

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Original tasks 4 / complete keys

Task 4

A tower has three tiers. The bottom tier is 4 cm high, the middle tier is 3 cm high, and the top tier is 2 cm high. Scaffolding extends 1.5 cm above the top tier. What is the total height from the ground to the top of the scaffolding?

Answer: 10.5 cm.

Reason: Add tier heights: 4 + 3 + 2 = 9 cm. Add scaffolding: 9 + 1.5 = 10.5 cm.

Check: Measure each tier and the scaffolding separately on your drawing, then add the values and compare with 10.5 cm.

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Source rubric / reflection

- [ ] Walls form a continuous boundary with at least one clear gate gap.
- [ ] Tower is visibly under construction with an open top or scaffolding.
- [ ] Tower and walls do not obscure each other.
- [ ] Scene layering is readable from background to foreground.
- [ ] Line weights are consistent enough for a clear line drawing.
- [ ] Valid alternative styles and letter forms are accepted if the scene reads correctly.

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