Surfing Drawing: Figure, Board, Wave and Stance

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

Task 1

A figure is 10 cm tall. Calculate board length and wave height using the lesson ratios.

Answer: Board length = 16 cm; wave height = 8 cm.

Reason: Board length is 1.6 times figure height: 1.6 × 10 = 16 cm. Wave height is half board length: 16 ÷ 2 = 8 cm.

Check: Measure your drawing: board should be about 16 cm and wave face about 8 cm.

Task 2

A board is 18 cm long. Where should the foot zone be and how wide is it?

Answer: Foot zone centered at board midpoint, about 6 cm wide.

Reason: Foot zone width is one third of board length: 18 ÷ 3 = 6 cm. It straddles the midpoint.

Check: Mark midpoint and measure 3 cm each side; both feet must fit inside.

Task 3

A figure is 14 cm tall. Find hip and shoulder heights above baseline.

Answer: Hips at 5.6 cm; shoulders at 9.8 cm.

Reason: Hip height = 0.4 × 14 = 5.6 cm. Shoulder height = 0.7 × 14 = 9.8 cm.

Check: Measure from baseline with a ruler; values should match within about 0.5 cm.

Task 4

Your board midpoint sits 1 cm above the wave face. What adjustment keeps the ratios valid?

Answer: Lower the board or raise the wave face by 1 cm so the midpoint touches.

Reason: The board must contact the wave; moving either element by the gap restores contact without changing proportions.

Check: Re-measure the gap; it should be zero at the midpoint.

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Source rubric / reflection

- [ ] Board length is between 1.5 and 1.7 times figure height.
- [ ] Both feet are inside the foot zone and shoulder-width apart.
- [ ] Knees are bent and hips sit near 40 percent of figure height.
- [ ] Shoulders sit near 70 percent of figure height and head reaches midline.
- [ ] Board midpoint touches the wave face.
- [ ] Wave lip does not cross the figure.
- [ ] Line weight distinguishes board and figure from the wave.
- [ ] Valid alternatives in arm position or face detail are accepted if stance and geometry pass.

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