Spartan Warrior Drawing: Helmet, Shield, and Stance

Original tasks 1, 2, 3 / complete keys

Task 1

Using a head height of 4 cm and a total height of seven head heights, calculate the total height and the shield diameter if the shield is one and a half head heights across.

Answer: Total height = 7 × 4 cm = 28 cm. Shield diameter = 1.5 × 4 cm = 6 cm.

Reason: Multiply the head height by the number of head heights for total height. Multiply head height by 1.5 for the shield diameter.

Check: Recompute 7 × 4 and 1.5 × 4; confirm units are cm and values match the stated convention.

Task 2

A drawing has a shield diameter of 5 cm and a head height of 3 cm. Is the shield close to the one-and-a-half-head-height convention? Show the arithmetic.

Answer: One and a half head heights = 1.5 × 3 cm = 4.5 cm. The shield is 5 cm, which is 0.5 cm larger than 4.5 cm, so it is slightly above the convention but close.

Reason: Compare the actual shield diameter to the convention value by subtraction.

Check: Verify 1.5 × 3 = 4.5 and 5 − 4.5 = 0.5.

Task 3

Describe how to adjust a figure whose feet are only one head height apart when the plan calls for about two head heights. Use a head height of 3.5 cm.

Answer: The planned foot spacing is about 2 × 3.5 cm = 7 cm. If the feet are only 3.5 cm apart, move each foot outward by about 1.75 cm to reach 7 cm total spacing, then redraw the legs and check knee bend.

Reason: Subtract the current spacing from the planned spacing and divide by two for each foot.

Check: Confirm 2 × 3.5 = 7 and that moving each foot 1.75 cm adds 3.5 cm total.

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Original tasks 4 / complete keys

Task 4

A label's x-height is measured as 4 mm from baseline to midline. A second label has an x-height of 6 mm. State whether the labels are consistent and give one fix.

Answer: They are not consistent because 4 mm and 6 mm differ by 2 mm. Fix by choosing one x-height, such as 5 mm, and redrawing both labels to match.

Reason: Consistency means the same baseline-to-midline distance for all labels.

Check: Measure each label from baseline to midline with the same ruler and compare the values.

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Source rubric / reflection

- [ ] Helmet includes dome, cheek guards, and crest and reads as Spartan.
- [ ] Shield is round, about one and a half head heights across, and positioned on the arm.
- [ ] Stance shows feet apart, bent front knee, and opposite hip-shoulder tilt.
- [ ] Proportions use a stated head-height convention consistently.
- [ ] Silhouette is clear without internal detail.
- [ ] Labels use a consistent baseline-to-midline x-height.
- [ ] No fantasy armor or other historical warrior styles appear.

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