Draw a Realistic Cowboy Boot: Leather Shading and Stitch Detail

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

Task 1

A boot has shaft height 90 mm and foot length 135 mm. Is the foot length within the 1.4 to 1.6 ratio? Show the arithmetic.

Answer: Yes. 135 divided by 90 equals 1.5, which is within 1.4 to 1.6.

Reason: Divide foot length by shaft height to get the ratio, then compare to the stated range.

Check: Recompute 90 times 1.5 to confirm 135 mm.

Task 2

Using 2 mm stitch marks and 2 mm gaps, how many marks fit in a 20 mm seam section?

Answer: About five marks.

Reason: Each mark plus gap uses 4 mm, so 20 divided by 4 equals 5.

Check: Multiply 5 marks by 4 mm to confirm 20 mm total.

Task 3

A boot has foot length 160 mm and heel height 50 mm. Is the heel about one third of the foot length? Show the arithmetic.

Answer: Yes. 160 divided by 3 is about 53.3 mm, and 50 mm is close to one third.

Reason: One third of foot length is foot length divided by 3; compare the result to the heel height.

Check: Multiply 50 mm by 3 to get 150 mm, which is close to 160 mm.

Task 4

Light comes from upper left. Name where the highlight, core shadow, and reflected light should go on the shaft and toe.

Answer: Highlight on upper-left shaft and top-left toe; core shadow on right side of shaft and under the toe; reflected light as a thin band inside the right core shadow.

Reason: The side facing the light receives the highlight, the opposite side receives core shadow, and reflected light sits just inside the core shadow.

Check: Confirm that highlight and core shadow are on opposite sides and that reflected light is lighter than core shadow but darker than highlight.

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Source rubric / reflection

- [ ] Silhouette proportions: foot length is about 1.4 to 1.6 times shaft height, heel height about one third of foot length, and toe spring is visible.
- [ ] Light direction: one direction is stated and highlight, core shadow, and reflected light are consistent with it.
- [ ] Leather values: at least four distinct values from the five-step scale are used, with a narrow highlight and a soft core shadow.
- [ ] Stitch convention: short dashes sit on seams, follow seam direction, have even spacing, and are darker than the leather.
- [ ] Heel stack: two or three layers are shown with thin darker lines and a lighter front edge.
- [ ] Alternative choices: any consistent scale, spacing, or light direction is acceptable if the drawing follows the stated convention and remains checkable.

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