Draw and Label a Horse Spur: Rowel, Shank, and Heel-Band

Original tasks 1, 2, 3 / complete keys

Task 1

Describe how to draw a side-view spur with a 3-unit heel-band, a 5-unit shank, and a 2-unit rowel. State where each of the three labels goes.

Answer: Draw the heel-band as a curved strip 3 units tall with a 1-unit gap and an opening facing left. Attach a 5-unit tapered shank at the band's back midpoint, extending right. Draw a 2-unit circle at the shank tip with 8 spokes. Label the rowel to the right, the shank above, and the heel-band to the left, each with a leader line ending on the part.

Reason: The convention fixes the opening direction and part order, so the description can be checked part by part. The units are hypothetical examples, so only consistency is required.

Check: Verify that all three labels are named, each leader line is described as touching its part, and the rowel is at the shank tip.

Task 2

A drawing shows a closed circle labeled heel-band, a shank attached to its top, and a rowel at the shank's middle. List two errors and give a fix for each.

Answer: Error 1: the heel-band is a closed circle; fix by adding an opening so it reads as a strip. Error 2: the rowel is at the shank's middle; fix by moving it to the shank tip.

Reason: The convention requires an open curved strip for the heel-band and the rowel at the shank end. Both errors break identifiable placement.

Check: Confirm each fix changes the named part to match the convention and that no new label error is introduced.

Task 3

You have a 4-unit shank and a 2-unit rowel. If the rowel is centered at the shank tip, how far is the rowel's center from the shank's starting point? Show the arithmetic.

Answer: 4 units. The rowel center sits at the shank tip, so the distance equals the shank length: 4 units.

Reason: The shank length is measured from its start at the heel-band to its tip. Centering the rowel at the tip does not add length.

Check: Re-read the prompt: the rowel is centered at the tip, not beyond it. Confirm the answer equals the given shank length.

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Original tasks 4 / complete keys

Task 4

A learner's rowel leader line ends 1 unit from the wheel, the shank leader line touches the arm, and the heel-band leader line ends 2 units from the band. Which label fails the convention, and what is the fix?

Answer: The heel-band label fails because its leader line ends 2 units away, beyond the one-unit limit. Fix by extending the leader line to touch the band or end within one unit.

Reason: The convention allows endpoints on the part or within one unit. One unit passes; two units fails.

Check: Compare each stated distance to the one-unit limit and confirm only the heel-band label exceeds it.

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Source rubric / reflection

- [ ] All three labels present and spelled correctly: rowel, shank, heel-band.
- [ ] Each leader line ends on or within one unit of its part.
- [ ] Rowel is centered at the shank tip and has an even number of spokes.
- [ ] Heel-band is drawn as a curved strip with an opening, not a closed circle.
- [ ] Shank connects to the band's back edge without crossing the opening.
- [ ] Drawing is a side view and is readable without extra explanation.

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