Draw a Witch on a Broomstick: Silhouette, Hat and Bristle Detail

Original tasks 1, 2, 3 / complete keys

Task 1

A figure box is 16 cm wide and 20 cm tall. Using the lesson proportions, calculate the hat cone height and bristle fan width.

Answer: Hat cone height = 20 divided by 3 = about 6.7 cm. Bristle fan width = 16 divided by 4 = 4 cm.

Reason: The hat cone is one-third of the box height and the bristle fan is one-quarter of the box width. These are hypothetical proportions from the lesson.

Check: Recompute 20 divided by 3 and 16 divided by 4. Confirm both answers are in centimetres and match the stated proportions.

Task 2

Describe how to place the seat anchor and broom handle so the rider and broom form one silhouette. Use a bounding box and at least two anchor points.

Answer: Draw a bounding box and mark the seat anchor slightly left of centre. Mark the bristle end at the lower right. Draw the torso as a rounded wedge from the seat, add bent legs overlapping the handle, and draw the handle from the seat to the bristle end. The overlap at the seat connects the shapes into one silhouette.

Reason: A single connected outline requires the rider and broom to share at least one boundary point. The seat anchor provides that connection.

Check: Trace the outer boundary with your finger. If you can travel from hat to bristles without crossing a gap, the silhouette is connected.

Task 3

A drawing has a hat cone 7 cm tall on a figure box 18 cm tall, and a bristle fan 5 cm wide on a box 14 cm wide. Compare these to the lesson proportions and state whether each is larger or smaller.

Answer: Target hat cone = 18 divided by 3 = 6 cm; 7 cm is larger by 1 cm. Target bristle fan = 14 divided by 4 = 3.5 cm; 5 cm is larger by 1.5 cm.

Reason: Subtract the target from the drawn measurement to find the difference. Positive differences mean larger than the lesson proportion.

Check: Recalculate 18 divided by 3 and 14 divided by 4, then subtract. Confirm the differences are 1 cm and 1.5 cm.

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Original tasks 4 / complete keys

Task 4

List three changes that would make a bristle fan read as a solid block, and give one fix for each.

Answer: 1. Strokes are too close together; fix by spacing them slightly. 2. Strokes are all the same length and angle; fix by varying length and angle within the fan. 3. The fan outline is filled with shading; fix by removing fill and keeping separate strokes.

Reason: A solid block loses the brush-like readability of separate strokes. Spacing, variation and avoiding fill preserve the fan structure.

Check: View the fan from one metre. If you can see individual strokes rather than a continuous mass, the fix has worked.

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Source rubric / reflection

- [ ] Silhouette reads as one connected figure from one metre away.
- [ ] Hat has a clear brim and a tapering cone; direction may vary.
- [ ] Bristles read as a fan of separate strokes, not a solid block.
- [ ] Cape panels connect shoulder to seat and leave the handle visible.
- [ ] Proportions are measured and recorded in consistent units.
- [ ] Valid alternatives are accepted if the silhouette remains readable.

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