# Draw an Upside-Down Bat: Grip, Hang Angle, and Folded Wings

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

Task 1

A bat grips a bar at a point 5 cm from the left end of a 14 cm bar. The body hangs 7 cm below the bar. Where is the head if it sits 3 cm lower than the hips?

Answer: The head is 10 cm below the bar.

Reason: Hips are 7 cm below the bar; the head is 3 cm lower than the hips, so 7 + 3 = 10 cm below the bar.

Check: Add the hang distance and the head offset, then confirm the total is greater than the hip distance.

Task 2

You draw two folded wings, each with 3 crease lines. How many crease lines appear in total, and what should the wing silhouette avoid?

Answer: Six crease lines total; the silhouette should avoid spreading outward.

Reason: Two wings times three creases equals six. Folded wings stay narrow and tucked.

Check: Count creases per wing and multiply by two; confirm each wing outline stays close to the torso.

Task 3

A roost bar is 16 cm long. The grip point is 6 cm from the left end. How far is the grip point from the right end?

Answer: 10 cm from the right end.

Reason: Subtract the left distance from the total length: 16 - 6 = 10 cm.

Check: Add the two distances: 6 + 10 = 16 cm, matching the bar length.

Task 4

A bat's body hangs 8 cm below the bar. The head is drawn 2 cm above the hips. Does the pose read as correctly inverted, and what should change?

Answer: No; the head must be lower than the hips, so move it below the hip line.

Reason: An inverted hang requires the head to sit lower than the hips; 2 cm above the hips breaks the pose.

Check: Compare head and hip heights against the bar; the head distance below the bar must be larger.

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Source rubric / reflection

- [ ] Toe tips visibly cross the roost bar, showing grip.
- [ ] Body hangs below the grip with the head lower than the hips.
- [ ] Wings read as folded and tucked, with crease lines rather than a spread outline.
- [ ] Silhouette is compact and the pose is readable at a glance.
- [ ] Valid alternatives are accepted: ear shape, face detail, and crease count may vary.

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