Draw a Small Creature from Shape Blocks: A Step-by-Step Guide

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

Task 1

A creature has a total height of 8 units. The head zone is 2 units, the body zone is 3 units, and the leg zone is 3 units. What is the total of the three zones?

Answer: 8 units.

Reason: Add the zone heights: 2 + 3 + 3 = 8.

Check: Compare the sum to the stated total height; they match.

Task 2

A body block is 6 units wide and centered on the midline. How many units from the midline is each edge?

Answer: 3 units.

Reason: Half of 6 is 3, so each edge is 3 units from the midline.

Check: Double the distance: 3 + 3 = 6, which matches the body width.

Task 3

A head block is 4 units wide. The left edge is 2 units left of the midline and the right edge is 1.5 units right of the midline. Is the head centered within the allowed half-unit difference?

Answer: Yes. The difference is 0.5 units, which is exactly at the allowed half-unit limit, so the head is centered within the rule.

Reason: Compare the two distances: 2 and 1.5. The difference is 0.5 units. The rule allows a difference of no more than half a unit, so this is within the limit.

Check: Subtract the smaller distance from the larger: 2 - 1.5 = 0.5. Compare to the half-unit limit; 0.5 is not greater than 0.5, so the check passes.

Task 4

Two limb blocks are drawn. The left limb is 3 units long and the right limb is 2.5 units long. By how many units do they differ, and what adjustment makes them equal?

Answer: They differ by 0.5 units. Shorten the left limb by 0.5 units or lengthen the right limb by 0.5 units.

Reason: Subtract: 3 - 2.5 = 0.5. To make them equal, change one limb by that difference.

Check: After adjustment, subtract the lengths again; the result should be 0.

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Source rubric / reflection

- [ ] The body, head, and limb blocks are present and in sequence.
- [ ] Zone heights are labeled and consistent with the chosen unit.
- [ ] Left and right distances from the midline differ by no more than half a unit.
- [ ] Limb blocks are equal in length unless intentionally unequal.
- [ ] Eyes are placed on the head block's horizontal midline.
- [ ] Construction lines are erased and the outline is clean.
- [ ] Valid alternatives are accepted if the sequence and checks are followed.

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