Panda Directed Drawing: Six Steps from Shapes to Bamboo

Original tasks 1, 2, 3 / complete keys

Task 1

A panda drawing has a head circle with a 5 cm diameter and a body oval 7 cm wide and 9 cm tall. The bamboo stalk is 10 cm tall. What is the total of these four measurements in centimeters?

Answer: 5 + 7 + 9 + 10 = 31 cm.

Reason: Add the head diameter, body width, body height, and bamboo height. All units are centimeters, so the total is 5 + 7 + 9 + 10 = 31 cm.

Check: Recount each value from the prompt and add again in a different order to confirm 31 cm.

Task 2

A student scores 3 on head, 4 on ears, 2 on eye patches, 3 on body, 3 on limbs, and 4 on bamboo. What is the total score out of 24, and which part scored lowest?

Answer: Total is 3 + 4 + 2 + 3 + 3 + 4 = 19 out of 24. Eye patches scored lowest at 2.

Reason: Add all six rubric scores. The smallest value is 2, which belongs to eye patches.

Check: Add the scores again and confirm the smallest number is 2.

Task 3

On a 20 cm by 25 cm sheet, a head circle uses 6 cm of the width and the body oval uses 8 cm of the width. If the head and body are centered, how much width remains on each side of the body oval?

Answer: The body oval is 8 cm wide on a 20 cm sheet, so 20 - 8 = 12 cm remains. Centered, each side has 12 / 2 = 6 cm.

Reason: Subtract the body width from the sheet width, then divide the remainder by two for equal side margins.

Check: Add 6 cm + 8 cm + 6 cm = 20 cm to confirm the margins and body width match the sheet width.

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Original tasks 4 / complete keys

Task 4

A bamboo stalk is drawn as 4 segments, each 3 cm tall. The stalk is beside an arm that is 5 cm long. What is the total height of the bamboo stalk, and how much taller is the stalk than the arm?

Answer: The stalk is 4 × 3 = 12 cm tall. It is 12 - 5 = 7 cm taller than the arm.

Reason: Multiply the number of segments by the height of each segment, then subtract the arm length.

Check: Add 3 + 3 + 3 + 3 = 12 cm, then check 12 - 5 = 7 cm.

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Source rubric / reflection

- [ ] Head: 4 points for a clear circle; 2 points for an oval or uneven circle; 0 points if missing.
- [ ] Ears: 4 points for two equal ovals overlapping the head; 2 points for unequal or circular ears; 0 points if missing.
- [ ] Eye patches: 4 points for two balanced slanted ovals inside the head; 2 points for one patch outside or unslanted; 0 points if missing.
- [ ] Body: 4 points for a centered oval wider than the head; 2 points for a small or off-center body; 0 points if missing.
- [ ] Limbs: 4 points for four attached limbs with rounded ends; 2 points for floating or pointed limbs; 0 points if missing.
- [ ] Bamboo: 4 points for a separate stalk with segments and leaves; 2 points for a plain line or stalk crossing the face; 0 points if missing.

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