Anime Figure Proportions: Head-Count Ratios for Practice Drawing

Original tasks 1, 2, 3 / complete keys

Task 1

A 6-head figure has a head height of 4 cm. The ankle line is planned at unit 6. Calculate the total height in centimeters and state where the ankle line falls.

Answer: Total height is 6 times 4 cm, which equals 24 cm. The ankle line falls at unit 6.

Reason: Multiply the head height by the head count to get total height. The final unit mark is the ankle line for this plan.

Check: Re-measure the head height with a strip and count six equal units; the sixth mark should equal 24 cm.

Task 2

A 7-head figure uses a head height of 2.5 cm. The knee is planned at unit 5. Calculate the distance from skull top to the knee line in centimeters.

Answer: The knee line is 5 times 2.5 cm, which equals 12.5 cm from skull top.

Reason: Each unit is 2.5 cm, so five units are five equal head heights stacked from the top.

Check: Mark five units on the strip and measure from skull top to the fifth mark; it should read 12.5 cm.

Task 3

A learner draws a 6-head figure but the ankle lands at unit 5.5. The head height is 3 cm. By how many centimeters is the figure short of the planned total height?

Answer: The planned height is 6 times 3 cm, which equals 18 cm. The drawn height is 5.5 times 3 cm, which equals 16.5 cm. The figure is 1.5 cm short.

Reason: Subtract the drawn unit count from the planned unit count, then multiply by the head height: 0.5 times 3 cm equals 1.5 cm.

Check: Measure the gap between the ankle line and the sixth unit mark on the strip; it should equal 1.5 cm.

Anime Figure Proportions: Head-Count Ratios for Practice Drawing

Original tasks 4 / complete keys

Task 4

A 7-head figure has a shoulder line at unit 1.4 and a hip line at unit 3.5. The head height is 2 cm. Calculate the torso length in centimeters between these two lines.

Answer: The difference in units is 3.5 minus 1.4, which equals 2.1 units. The torso length is 2.1 times 2 cm, which equals 4.2 cm.

Reason: Subtract the lower unit number from the higher one to find the unit gap, then multiply by the head height.

Check: Measure between the shoulder and hip lines with the strip; the distance should equal 2.1 head units, or 4.2 cm.

Anime Figure Proportions: Head-Count Ratios for Practice Drawing

Source rubric / reflection

- [ ] The chosen head-count ratio is written on the page.
- [ ] The head unit is measured from skull top to chin and transferred to a strip.
- [ ] At least five vertical landmarks are labeled with unit numbers.
- [ ] The ankle or floor line lands on the final unit mark within a small hand-measured margin.
- [ ] One traced figure and one blank figure use the same ratio and landmark set.
- [ ] Valid alternative proportions are accepted when the unit arithmetic is consistent and the ratio is stated.

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