Female Figure Proportion Plate: Torso Landmarks and Practice

Original tasks 1, 2 / complete keys

Task 1

Draw a vertical line 12 cm long and divide it into six equal head units. Mark the shoulder line at one and a half units down, the waist line at three units down, and the hip line at four units down. Label each mark.

Answer: Each head unit is 12 divided by 6, which equals 2 cm. The shoulder line is at 1.5 times 2, which equals 3 cm from the top. The waist line is at 3 times 2, which equals 6 cm from the top. The hip line is at 4 times 2, which equals 8 cm from the top.

Reason: Dividing the total height by the number of units gives the unit height. Multiplying the unit height by the landmark position gives the distance from the top.

Check: Measure each mark from the top with a ruler. Confirm 3 cm, 6 cm, and 8 cm. Confirm that the waist mark is between the shoulder and hip marks.

Task 2

A figure is 16 cm tall and uses eight head units. The shoulder width is 5.0 cm, waist width is 3.0 cm, and hip width is 5.5 cm. Calculate waist divided by shoulder and hip divided by shoulder. State whether the proportions pass the lesson's check.

Answer: Waist divided by shoulder is 3.0 divided by 5.0, which equals 0.6, less than one. Hip divided by shoulder is 5.5 divided by 5.0, which equals 1.1, within the range of about 0.9 to 1.3. The proportions pass the check.

Reason: The ratios compare waist and hip to shoulder. A waist ratio below one means the waist is narrower. A hip ratio near one means the hip is similar to or slightly wider than the shoulder.

Check: Recompute both divisions. Confirm 0.6 is less than one and 1.1 is between 0.9 and 1.3. Check that all widths are in centimeters.

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Original tasks 3, 4 / complete keys

Task 3

A student's drawing has shoulder width 6.0 cm, waist width 6.5 cm, and hip width 5.0 cm. Identify which landmark is inconsistent with the lesson's guide and state a correction.

Answer: The waist is wider than the shoulder because 6.5 divided by 6.0 equals about 1.08, which is greater than one. The hip is narrower than the shoulder because 5.0 divided by 6.0 equals about 0.83, below the typical range. Correction: narrow the waist guide and widen the hip guide until waist divided by shoulder is less than one and hip divided by shoulder is between about 0.9 and 1.3.

Reason: The ratios reveal that the waist is too wide and the hip is too narrow relative to the shoulder. Adjusting the guides brings the ratios into the stated ranges.

Check: After correction, re-measure and recompute both ratios. Confirm the waist ratio is below one and the hip ratio is within the stated range.

Task 4

On a figure 14 cm tall with seven head units, the shoulder line is placed 3 cm from the top. Calculate the shoulder line position in head units and state whether it matches the lesson's guide of about one and a half units.

Answer: Each head unit is 14 divided by 7, which equals 2 cm. The shoulder line at 3 cm from the top is 3 divided by 2, which equals 1.5 head units. This matches the lesson's guide of about one and a half units.

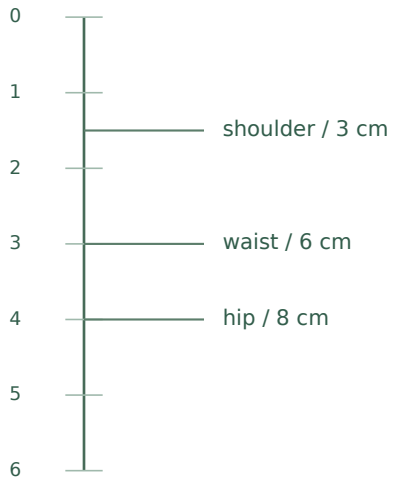
Reason: Dividing the shoulder distance by the unit height converts centimeters to head units. Comparing the result to 1.5 checks the placement.

Check: Measure the shoulder line from the top and confirm it is 3 cm. Divide by the unit height of 2 cm and confirm the result is 1.5.

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Task 1 / answers

Hypothetical figure guides / labelled lengths print 1:2 / widths are torso guides, not arm span

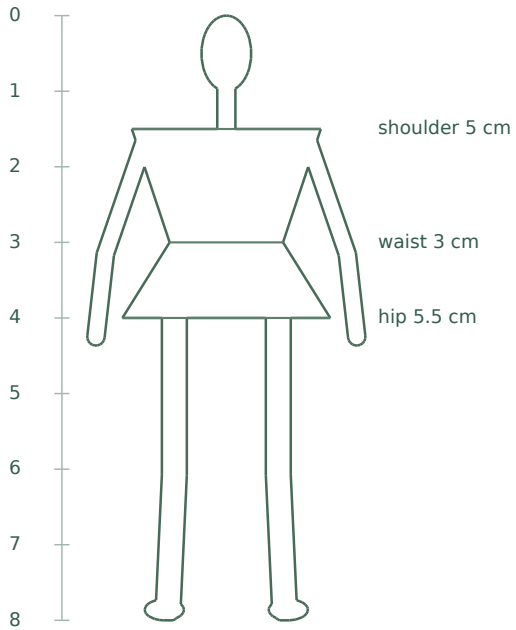


12 cm / 6 = 2 cm per head unit. Landmark distances are measured downward from the top: 1.5 units, 3 units and 4 units.

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Task 2 / answers

Hypothetical figure guides / labelled lengths print 1:2 / widths are torso guides, not arm span

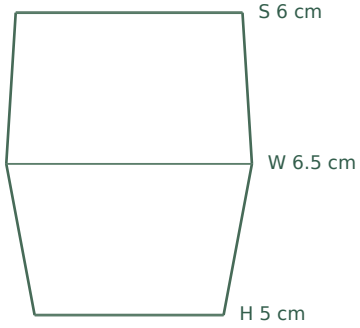


Head unit: 16 / 8 = 2 cm. Waist/shoulder = 0.6; hips/shoulder = 1.1. These meet this selected worksheet rule, not a biological standard.

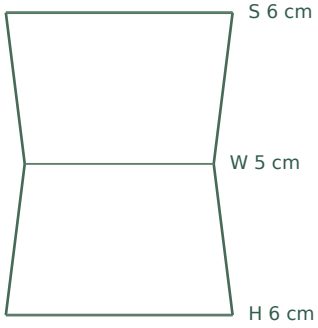
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Task 3 / answers

Hypothetical figure guides / labelled lengths print 1:2 / widths are torso guides, not arm span



GIVEN / fails the rule



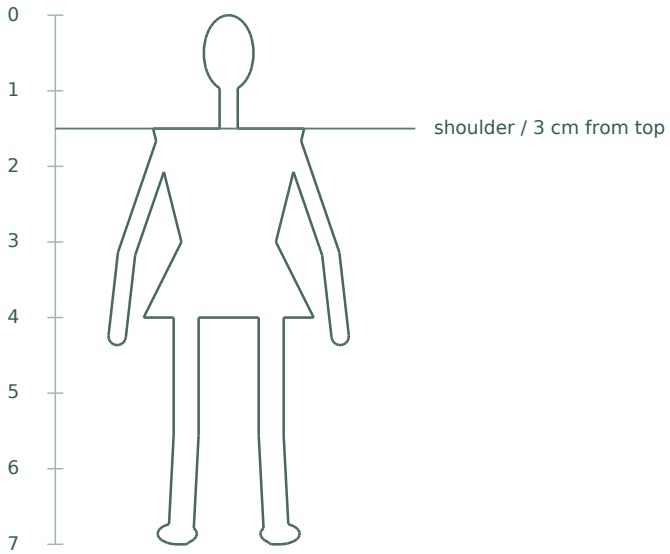
One valid correction

Given ratios: 6.5/6 is about 1.08; 5/6 is about 0.83. One possible correction keeps shoulder 6 cm, sets waist 5 cm and hips 6 cm: ratios about 0.83 and 1.

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Task 4 / answers

Hypothetical figure guides / labelled lengths print 1:2 / widths are torso guides, not arm span



14 / 7 = 2 cm per head unit. The shoulder at 3 cm is 3 / 2 = 1.5 head units from the top, matching the selected guide.

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Source rubric / reflection

- [ ] The figure height is divided into equal head units and the division is labeled.
- [ ] Shoulder, waist, and hip guides are drawn at the stated unit marks.
- [ ] Waist width is less than shoulder width, confirmed by a ratio less than one.
- [ ] Hip width is close to or slightly greater than shoulder width, confirmed by a ratio between about 0.9 and 1.3.
- [ ] All measurements use the same unit and are recorded beside the drawing.
- [ ] Labels are legible, placed beside their guides, and explained by a key if abbreviations are used.
- [ ] Valid alternative proportions are accepted if the stated ratios are internally consistent.

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