Giraffe Grid Drawing: Proportion and Feature Placement

Original tasks 1, 2, 3 / complete keys

Task 1

On a 5 by 7 grid, the reference giraffe has its eye at column C, row 2. The top of the head is at column C, row 1. The muzzle is at column B, row 2. Where should you place the eye and muzzle on your blank grid?

Answer: Eye at C2, muzzle at B2.

Reason: The grid coordinates are transferred directly. The eye is in column C, row 2; the muzzle is one column left (B) and same row (2).

Check: Count columns from left (A=1, B=2, C=3) and rows from top (1=top). Verify eye is at third column, second row; muzzle at second column, second row.

Task 2

A reference giraffe's neck spans 4 grid squares vertically. On your paper, each square is 3 cm tall. Assume your paper grid uses the same number of squares as the reference (square counts transfer unchanged). How many centimeters tall should the neck be?

Answer: 12 cm.

Reason: Neck height in squares (4) multiplied by square height (3 cm) equals 12 cm.

Check: Measure the neck on your drawing; it should be 12 cm from base to top if drawn to scale, because 4 squares × 3 cm per square = 12 cm.

Task 3

The reference shows the front hoof at column D, row 6, and the back hoof at column E, row 6. The shoulder is at column D, row 4. What is the horizontal distance in squares between the front and back hooves?

Answer: 1 square.

Reason: Front hoof column D, back hoof column E; difference is one column (E - D = 1).

Check: Count columns between D and E: only one square apart.

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Original tasks 4 / complete keys

Task 4

Your paper grid squares are 2 cm, and the reference grid squares are 1 cm. The reference giraffe's body depth (from back to belly) is 2 squares. What should the body depth be on your paper in centimeters?

Answer: 4 cm.

Reason: Scale factor is 2 cm / 1 cm = 2. Body depth in reference squares (2) times scale factor (2) equals 4 cm.

Check: Measure body depth on your drawing; it should be 4 cm if drawn to scale.

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Source rubric / reflection

- [ ] Proportions: Neck length and leg length match the reference within half a grid square.
- [ ] Feature placement: Eye, ear, ossicones, muzzle, and tail are in the correct grid squares relative to landmarks.
- [ ] Grid consistency: All squares are equal size and the scale factor is consistent.
- [ ] Line quality: Lines are clear and grid lines are erased or faint.
- [ ] Artistic variation allowed: Spot patterns and minor shape differences are acceptable if proportions and placement are correct.

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