Paper Airplane Contour Drawing: Edge-Line Practice

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

Task 1

An airplane is 10 cm long. You draw it at half scale. What length should the drawing be?

Answer: 5 cm.

Reason: Half scale means multiply the real length by 0.5: 10 cm × 0.5 = 5 cm.

Check: Measure the drawing with a ruler; it should read 5 cm.

Task 2

Your drawing has 6 sharp corners and the airplane has 8 visible corners. How many corners are missing?

Answer: 2 corners.

Reason: Subtract the drawn count from the visible count: 8 − 6 = 2.

Check: Recount corners on both the drawing and the airplane.

Task 3

A drawing measures 14 cm nose to tail. The airplane is 12 cm long. What is the difference in centimeters?

Answer: 2 cm.

Reason: Subtract the smaller value from the larger: 14 − 12 = 2 cm.

Check: Measure both lengths with the same ruler and subtract.

Task 4

You draw three edges: 4 cm, 3 cm, and 5 cm. What is the total length of these contour lines?

Answer: 12 cm.

Reason: Add the lengths: 4 + 3 + 5 = 12 cm.

Check: Measure each line segment and sum the values.

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Source rubric / reflection

- [ ] Outer silhouette is closed and matches the airplane's visible boundary (0-2).
- [ ] Internal fold lines correspond to visible creases (0-2).
- [ ] Overlaps clearly show which layer is in front (0-2).
- [ ] No shading or texture marks are used (0-2).
- [ ] Measurements use consistent units and are recorded (0-2).

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