Draw a Mustang GT: Body Proportions and Grille Detail

Original tasks 1, 2, 3 / complete keys

Task 1

Draw a side-view proportion guide using 1 unit = 3 cm. Total length 4.5 units, hood 1.2 units, cabin 1.5 units, rear 0.8 units. What is the length of each section in cm?

Answer: Total 13.5 cm; hood 3.6 cm; cabin 4.5 cm; rear 2.4 cm; overhangs total 3.0 cm (1.5 cm front, 1.5 cm rear).

Reason: Multiply each unit value by 3 cm. 4.5×3=13.5; 1.2×3=3.6; 1.5×3=4.5; 0.8×3=2.4. Overhangs = 13.5 − (3.6+4.5+2.4) = 3.0 cm.

Check: Add sections: 3.6+4.5+2.4+3.0=13.5 cm, matching total.

Task 2

In a front view with width 1.8 units and grille width 1.0 unit, how much space remains on each side of the grille if it is centered? Use 1 unit = 2 cm and give answers in cm.

Answer: 0.4 units per side = 0.8 cm per side.

Reason: Total width 1.8 units; grille 1.0 unit; remaining 0.8 units split equally = 0.4 units per side. In cm: 0.4×2=0.8 cm.

Check: 0.8 cm + 2.0 cm grille + 0.8 cm = 3.6 cm total width, which equals 1.8×2.

Task 3

A side view has wheel centers 1.0 cm from front and 1.0 cm from rear, with total length 9 cm. What is the distance between wheel centers?

Answer: 7.0 cm.

Reason: Distance between centers = total length − front overhang − rear overhang = 9 − 1.0 − 1.0 = 7.0 cm.

Check: 1.0 + 7.0 + 1.0 = 9.0 cm.

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Original tasks 4 / complete keys

Task 4

You draw a grille 1.0 unit wide and 0.4 units tall. Using 1 unit = 2.5 cm, what are the grille dimensions in cm, and what is its area in cm^2?

Answer: Width 2.5 cm, height 1.0 cm, area 2.5 cm^2.

Reason: $1.0 \times 2.5 = 2.5$ cm; $0.4 \times 2.5 = 1.0$ cm; area $= 2.5 \times 1.0 = 2.5$ cm^2.

Check: Area = width×height $= 2.5 \times 1.0 = 2.5$ cm^2; dimensions match unit conversion.

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Source rubric / reflection

- [ ] Body proportions: hood visibly longer than cabin; total length about 4.5 units in example scale.
- [ ] Grille detail: centered, about 1.0 unit wide and 0.4 units tall, with clear mesh suggestion.
- [ ] Headlights: two, symmetric, angled inward, about 0.3 units wide.
- [ ] Line quality: guides light, final lines dark, clean silhouette.
- [ ] Valid alternatives: different mesh pattern or slight headlight shape variation accepted if stance and grille character remain.

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