Mini Car Drawing: Compact Proportions and Wheel Placement

Original tasks 1, 2 / independent work

Task 1

Side view: wheel diameter 3 cm, wheelbase 6 cm, total body length 9 cm, body height 4.5 cm. State whether the wheelbase and total length ratios match the compact targets of about two and about three wheel diameters.

Task 2

Side view: wheel diameter 2.5 cm, wheelbase 7.5 cm, total body length 10 cm. Identify which ratio is too long for the compact target and suggest one adjustment.

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Original tasks 3, 4 / independent work

Task 3

Three-quarter view: near wheel diameter 2 cm, far wheel diameter 2 cm, near wheelbase 4 cm, far wheelbase 4 cm, horizontal offset 1 cm, vertical offset 0.5 cm. Check whether the wheel sizes and wheelbase are consistent.

Task 4

A drawing has wheel diameter 2 cm, wheelbase 5 cm, total body length 8 cm, and body height 4 cm. Calculate the three ratios and state whether the drawing meets the compact targets of about 2, about 3, and about 1.5.