Draw a WW1 Biplane: Wings, Struts, and Cockpit

Ordinary topic reference / separately checked pixels



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Original worked example / unchanged complete key

Prompt: Draw a side-view biplane on a 20 cm tall paper using a 4 cm wing gap and a 6 cm wing chord. Place four struts at 1.2 cm, 2.4 cm, 3.6 cm, and 4.8 cm from the leading edge. Place the cockpit between the mid-front and mid-rear struts.

Answer: Baseline at 10 cm from the top. Upper wing centerline at 6 cm from the top. Lower wing chord from 7 cm to 13 cm horizontally. Upper wing chord from 7 cm to 13 cm horizontally. Struts centered at 8.2 cm, 9.4 cm, 10.6 cm, and 11.8 cm from the left edge (1.2, 2.4, 3.6, and 4.8 cm from the leading edge at 7 cm), each 0.5 cm wide, all inside the wing outline. Cockpit opening centered at 10 cm from the left edge, 0.6 cm wide and 1 cm deep, sitting on the fuselage between the mid-front and mid-rear struts. With struts centered at 9.4 cm and 10.6 cm, the cockpit spans 9.7–10.3 cm, leaving 0.05 cm clearance to each strut edge at 9.65 cm and 10.35 cm.