Draw a WW1 Biplane: Wings, Struts, and Cockpit

Original task 1 / independent drawing and calculation

Task 1

On a 15 cm tall paper, choose a 3 cm wing gap and a 5 cm chord. Mark the lower and upper wing centerlines and draw both wings aligned. Describe where the leading and trailing edges sit horizontally.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 2 / independent drawing and calculation

Task 2

Using a 6 cm chord, place four struts at equal spacing. State the chord positions and the spacing interval. Draw the struts as 0.4 cm wide rectangles connecting matching points.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 3 / independent drawing and calculation

Task 3

Place a cockpit opening 0.6 cm wide and 0.8 cm deep between the mid-front and mid-rear struts on a biplane with struts at 1.2 cm, 2.4 cm, 3.6 cm, and 4.8 cm from the leading edge. Describe its horizontal position relative to the struts.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

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Original task 4 / independent drawing and calculation

Task 4

A drawing has a 4 cm wing gap but the upper wing is shifted 1 cm forward. State one correction and one measurement to confirm the fix.

Keep the original task measurements. Use the full drawing sheet in this PDF for a response needing more room; use the stated paper size when a task specifies larger paper.

Full drawing sheet / reusable blank workspace

Reusable full drawing sheet for Tasks 1 to 4. Print another copy when needed. Keep all original task measurements; if a task specifies larger paper, use that paper size.