Draw a Sopwith Camel Biplane: Wings, Struts, and Cockpit

Original task 1 / independent drawing and calculation

Task 1

In a 16 cm by 10 cm scale box, draw a centerline and a fuselage 12 cm long. Mark a lower wing 1.5 cm below the midline and an upper wing 2.5 cm above it. State the margin at each end of the fuselage.

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

A lower wing spans 14 cm total. You want two strut pairs per side at one-third and two-thirds of the span from the centerline. Calculate the distance from the centerline to each strut on one side.

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

Your upper wing is 16 cm long and the lower wing is 14 cm long, both centered. How far does the upper wing extend beyond the lower wing on each side?

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

You place the cockpit 1 cm behind the upper wing leading edge on the centerline. The upper wing leading edge is 5 cm forward of the midline. Where is the cockpit relative to the midline?

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.