Civil War Cannon Scale Drawing: Barrel, Carriage, and Wheel Proportions

Topic reference / ordinary illustration



Ordinary topic reference. Hypothetical dimensions in the four tasks are supplied in their own text; this illustration is not their measured answer.

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Worked example / complete source key

A reference cannon has a barrel length of 180 cm, carriage length of 120 cm, carriage height of 60 cm, and wheel diameter of 90 cm. Use a scale of 1:10. Calculate the drawing sizes and describe the layout.

Answer: Barrel drawing length = 180 ÷ 10 = 18 cm. Carriage drawing length = 120 ÷ 10 = 12 cm. Carriage drawing height = 60 ÷ 10 = 6 cm. Wheel drawing diameter = 90 ÷ 10 = 9 cm, so wheel radius = 4.5 cm. Draw a baseline, mark 12 cm for the carriage, and centre an 18 cm barrel guide above it. Draw the carriage 6 cm high. Draw the near wheel as a 9 cm circle with its centre 4.5 cm above the baseline so the rim touches the ground line.