Builder Drawing: Hard Hat, Tool Belt, and Stance

Original tasks 1, 2 / independent work

Task 1

A builder figure is drawn with the hip line at the fourth part from the ground and the shoulder line at the sixth part. The total height from ground to top is 16 cm. What is the distance from the ground to the hip line, and from the ground to the shoulder line?

Task 2

The shoulder width of a builder figure is set to two head-widths. The head width is 3 cm. The feet are placed 5 cm apart. Is the stance narrower or wider than the shoulder width, and by how much?

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Original tasks 3, 4 / independent work

Task 3

A tool belt is drawn as a horizontal band centered on the hip line, extending 2 cm above and 2 cm below the hip line. What is the total height of the belt? If the left side of the belt is drawn 1 cm higher than the right side, is the belt level?

Task 4

A hard hat dome is drawn to cover the upper half of a head oval. The head oval is 4 cm tall. The dome is drawn 3 cm tall. Does the dome cover the upper half of the head? By how much does it differ from the required 2 cm?