

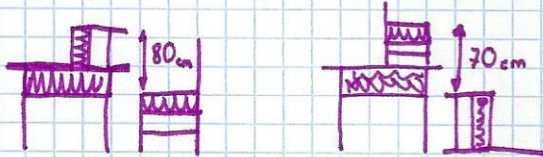
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A TABLE AND TWO CHAIRS

What is the height of the table?

Show your work.

Tip: if you use algebraic language, the problem will be easier.



Height of the table = h

Height of the chair = x

Width of the chair = y

SUBSTITUTION METHOD

$$\begin{cases} x + 80 = y + h & \rightarrow y = x + 80 - h \\ 70 + y = h + x \end{cases}$$

$$70 + x + 80 - h = h + x$$

$$70 + 80 = h + \cancel{x} - \cancel{x} + h$$

$$150 = 2h$$

$$75 = h$$

solution \rightarrow The height of the table is 75 cm