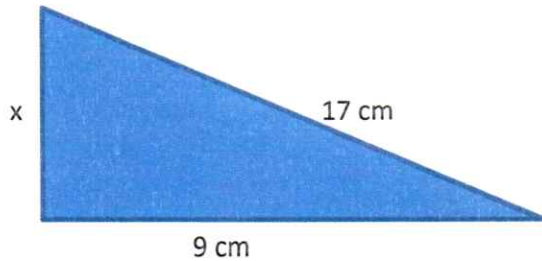


do 8. 1. 2021

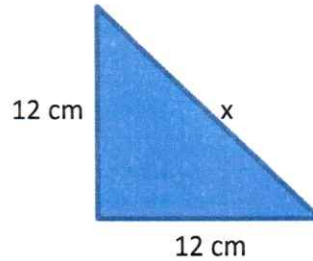
Pracovní list - Pythagorova věta

Jméno:

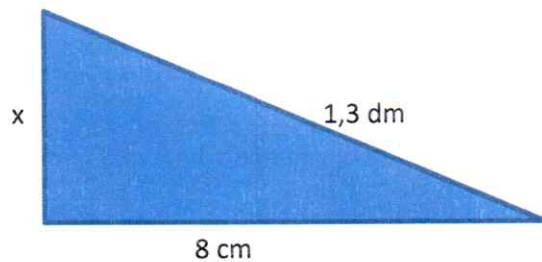
1) Vypočítej zbyývající stranu pravoúhlého trojúhelníku:



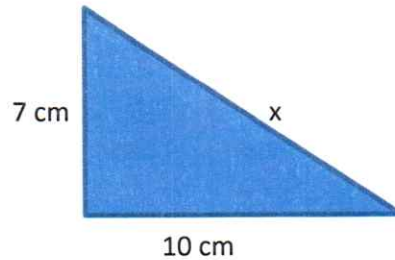
$$\begin{aligned} a &= 9 \text{ cm} \\ b &= ? \\ c &= 17 \text{ cm} \\ \hline c^2 &= a^2 + b^2 \\ 17^2 &= 9^2 + b^2 \\ 289 &= 81 + b^2 \\ b^2 &= 289 - 81 \\ b^2 &= 208 \Rightarrow b = \sqrt{208} \\ &= \underline{\underline{14,42 \text{ cm}}} \end{aligned}$$



$$\begin{aligned} a &= 12 \text{ cm} \\ b &= 12 \text{ cm} \\ c &= ? \\ \hline c^2 &= a^2 + b^2 \\ c^2 &= 12^2 + 12^2 \\ c^2 &= 144 + 144 \\ c^2 &= 288 \\ c &= \sqrt{288} \\ &= \underline{\underline{16,97 \text{ cm}}} \end{aligned}$$



$$\begin{aligned} a &= ? \\ b &= 8 \text{ cm} \\ c &= 1,3 \text{ dm} = 13 \text{ cm} \\ \hline c^2 &= a^2 + b^2 \\ 13^2 &= a^2 + 8^2 \\ 169 &= a^2 + 64 \\ a^2 &= 169 - 64 \\ a^2 &= 105 \\ a &= \sqrt{105} \Rightarrow a = \underline{\underline{10,25 \text{ cm}}} \end{aligned}$$



$$\begin{aligned} a &= 7 \text{ cm} \\ b &= 10 \text{ cm} \\ c &= ? \\ \hline c^2 &= a^2 + b^2 \\ c^2 &= 7^2 + 10^2 \\ c^2 &= 49 + 100 \\ c^2 &= 149 \\ c &= \sqrt{149} \\ &= \underline{\underline{12,21 \text{ cm}}} \end{aligned}$$

