

$BC = \text{lato} \rightarrow \text{ipotenuse}$

$CH = \text{altezza} \rightarrow \text{cateto maggiore}$

$HB = \text{metà base} \rightarrow \text{cateto minore}$

$$BC = \sqrt{HB^2 + CH^2}$$

$$CH = \sqrt{BC^2 - HB^2}$$

$$HB = \sqrt{BC^2 - CH^2} \rightarrow AB = HB \cdot 2$$

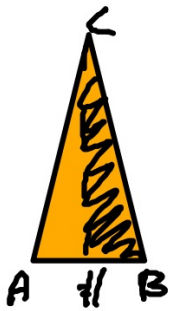
$$\begin{array}{l|l} AB = 64 \text{ cm} & P \\ BC = 40 \text{ cm} & A \\ BC \cong AC & \end{array}$$

$$P = AB + 2 \cdot BC = 64 + 2 \cdot 40 = 144 \text{ cm}$$

$$HB = AB : 2 = 64 : 2 = 32 \text{ cm}$$

$$CH = \sqrt{BC^2 - HB^2} = \sqrt{40^2 - 32^2} = \sqrt{1600 - 1024} = \sqrt{576} = 24 \text{ cm}$$

$$A = \frac{AB \cdot CH}{2} = \frac{64 \cdot 24}{2} = 768 \text{ cm}^2$$



$$\begin{array}{l|l} AB - CH = 30 \text{ cm} & P \\ AB = \frac{3}{2} CH & 1 \end{array}$$

$$AB : CH = 3 : 2$$

$$(AB - CH) : AB = (3 - 2) : 3$$

$$30 : AB = 1 : 3$$

$$AB = \frac{30 \cdot 3}{1} = 90 \text{ cm}$$

$$CH = AB - (AB - CH) = 90 - 30 = 60 \text{ cm}$$

$$HB = AB : 2 = 90 : 2 = 45 \text{ cm}$$

$$BC = \sqrt{HB^2 + CH^2} = \sqrt{45^2 + 60^2} = \sqrt{2025 + 3600} = \dots = 75 \text{ cm}$$