The Pythagorean relationship can be used to determine the length of the hypotenuse of a right triangle when the lengths of the two legs are known:


The Pythagorean relationship can be used to determine the leg length of a right triangle when the lengths of the hypotenuse and the other leg are known:


$$
\begin{aligned}
& a^{2}+b^{2}=c^{2} \\
& p^{2}+12^{2}=15 \\
& \rho^{2}+149=225 \\
& -144 \\
& \sqrt{p^{2}}=-141
\end{aligned}
$$

$p=9$

The right triangle below has a square attached to its hypotenuse. What is the perimeter of the triangle? Give you answer to the nearest tenth of a centimetre

$$
\begin{gather*}
A=\operatorname{lx\omega }  \tag{2}\\
A=S^{2} \\
914=\sqrt{S^{2}} \\
30.23=S
\end{gather*}
$$


$P=S_{1}+S_{2}+S_{3}$


