

Determine the length of $w$


$$
\begin{aligned}
& a^{2}+b^{2}=c^{2} \\
& w^{2}+7^{2}=12^{2} \\
& w^{2}+49=144 \\
& \sqrt{w^{2}}=49-95 \\
& w=9.75 \mathrm{~cm}
\end{aligned}
$$



Ellie and Lucas are going to the skateboard park to try out the new ramp. Is the new ramp a right triangle? Explain your thinking.

$$
\begin{aligned}
& a^{2}+b^{2}=c^{2} \\
& 9^{2}+12^{2}=18^{2} \\
& 81+144=324 \\
& 225 \neq 324 \\
& \therefore \text { H is noT a right } \\
& \text { triangle because the formuite } \\
& \text { dos not work! } \\
& \text { RS } \not \subset S \text {. }
\end{aligned}
$$

