Draw a model with tiles and solve. Check you answer:
Is $x=-9$ the solution? answer?


LS. $=$ RS.

$$
\begin{aligned}
& 66=6(x+7) \\
& 66=6(-9+7) \\
& 66=6(-2) \\
& 66 \neq-12 \\
& \text { NO }
\end{aligned}
$$

Each side of a regular octagon is decreased by 3 cm . If the perimeter of the new octagon is 48 cm , what was the measure of each side of the original octagon?


$$
\begin{aligned}
& P=8 s \\
& P=8(x-6) \\
& 48=8(x-6) \\
& 48=8 x-48 \\
& +48 \\
& \frac{96}{8}=\frac{8 x}{8}
\end{aligned}
$$

$$
\begin{aligned}
& \text { Let X represent } \\
& \text { the origen } \\
& \text { side length }
\end{aligned}
$$




