The length of a rectangle with constant area varies inversely as the width. When the length is 18 ft , the width is 8 ft . Find the length when the width is 9 ft .

$$
A=L W
$$

When W=8 and L=18

$$
A=8 * 18=144
$$

When $\mathrm{W}=9$

$$
\begin{gathered}
144=L * 9 \\
L=\frac{144}{9}=16 \mathrm{ft}
\end{gathered}
$$

Answer: 16 ft .

