You need to enclose a rectangular garden with 148 feet of fence. If the width of the garden is 8 feet less than the length, find the dimensions of the garden.

Perimeter = 148

宽度是长度减8

宽度 = \( \text{长度} - 8 \)

宽度 = \( l - 8 \)

Perimeter = 148

\[ 2w + 2l = 148 \]

\[ 2(l-8) + 2l = 148 \]

\[ 2l - 16 + 2l = 148 \]

\[ 4l - 16 = 148 \]

\[ 4l = 164 \]

\[ \frac{4l}{4} = \frac{164}{4} \]

\[ l = 41 \text{ ft} \]

宽度 = \( l - 8 \)

宽度 = \( 41 - 8 \)

宽度 = 33 ft