## 1 Task

The length of a rectangular portrait is 1.5 time the width. The perimeter is 10 feet. What is the length of the portrait?

## 2 Solution

Let $w$ to be a width of the portrait and $l$ - the length. From the task formulation we see, that $l=1.5 w$. The perimeter can be calculated as

$$
P=2 w+2 l=2(w+l)=2(w+1.5 w)=2 * 2.5 w
$$

As we know, $P=10$. So,

$$
\begin{gathered}
5 * w=10 \\
w=2 \\
l=1.5 * w=3
\end{gathered}
$$

## 3 Answer

The length of the portrait is 3 feet.

