

Natalie earns \$8.00 per hour during the daytime and \$9.50 per hour in the evening after 6pm. last week she earned \$314.00 for 37 hours.how many daytime hours did she work?

Solution:

Let:

x – daytime hours

y – evening hours

Let's write a system of equations:

$$\begin{cases} x + y = 37 \\ 8x + 9.5y = 314 \end{cases}$$

Solutions of system is: $x=25$, $y=12$.

Answer:

25 hours.