Mr Singh spends $1 / 4$ of his monthly salary on the repayment of a housing loan. Of the remainder, he spends $1 / 5$ on food and the PUB bill, and puts aside $1 / 10$ for transport costs. This leaves him with 630 a month. What is his monthly salary?

Solution.
We first find which part of salary stays after all payments
$1-\frac{1}{4}-\left(1-\frac{1}{4}\right)\left(\frac{1}{5}+\frac{1}{10}\right)=\frac{3}{4}-\frac{3}{4} \frac{3}{10}=\frac{21}{40}$
Then his monthly salary is
$630 \frac{40}{21}=1200$
Answer. 1200.

