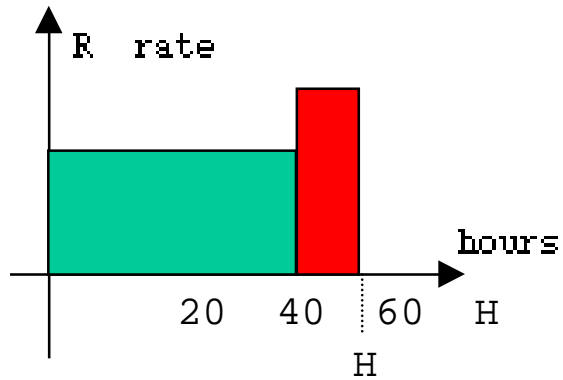
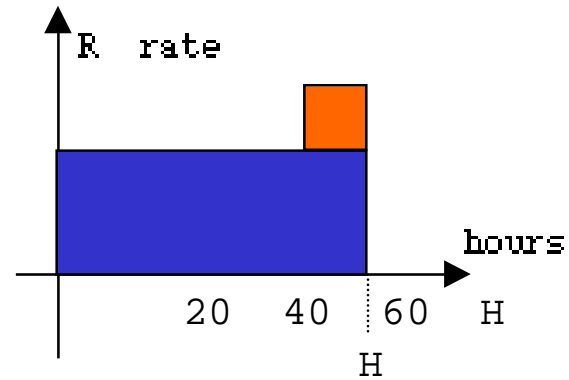


Other ways to compute the overtime Pay: many

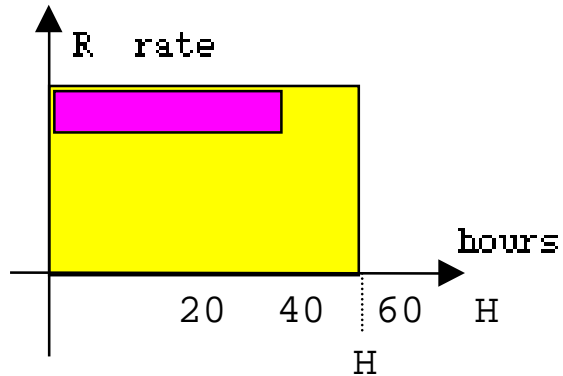


$$\begin{aligned}
 P &= 10 \cdot 40 + 15 \cdot (H - 40) \\
 &= 400 + 15 \cdot 10 \\
 &= 550
 \end{aligned}$$



$$\begin{aligned}
 P &= 10 \cdot H + 5 \cdot (H - 40) \\
 &= 10 \cdot 50 + 5 \cdot 10 \\
 &= 550
 \end{aligned}$$

When there are many ways: some may be better.



$$\begin{aligned}
 P &= 15 \cdot H - 5 \cdot 40 \\
 &= 15 \cdot 50 - 200 - 5 \cdot 10 \\
 &= 550
 \end{aligned}$$

New View:

Pay P is the area under the R vs H curve called an **Integral**

$$P = \int_0^H r \, dh$$