

Task:

A worker earns \$6 per hour for the first 40 hours a weeks he works and \$9 per hour for any extra hours. Assuming that he works at least 40 hours, write an expression for his gross weekly wage in terms of H , the total hours worked per week and then simplify?

Solution:

A worker works at least 40 hours per week and during that time earns

$$40 \cdot 6 = 240 \text{ (\$).}$$

For all extra hours a worker earns: $9(H - 40) = 9H - 360 \text{ (\$).}$

Weekly wage worker is: $240 + 9H - 360 = 9H - 120 \text{ (\$).}$

Answer: $\$(9H - 120).$