

Acknowledgements

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DR. IGADOLLEVAR CONTABILIDAD
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Variable	Definition	Source
1. Age	Age in years	1990 Census
2. Education	Years of schooling completed	1990 Census
3. Income	Annual income in 1990	1990 Census
4. Health	Self-reported health status	1990 Census
5. Race	Race/ethnicity	1990 Census
6. Sex	Male or female	1990 Census
7. Marital status	Married, divorced, widowed, or never married	1990 Census
8. Employment	Employed or unemployed	1990 Census
9. Housing	Owns or rents home	1990 Census
10. Mobility	Has a car or not	1990 Census
11. Social network	Number of people in household	1990 Census
12. Health insurance	Has health insurance or not	1990 Census
13. Disability	Has a physical or mental disability	1990 Census
14. Language	Primary language spoken at home	1990 Census
15. Religion	Religious affiliation	1990 Census
16. Political affiliation	Political party affiliation	1990 Census
17. Voting history	Has voted in a federal election	1990 Census
18. Civic participation	Volunteered for a community organization	1990 Census
19. Social capital	Trust in neighbors	1990 Census
20. Social capital	Trust in government	1990 Census

$\sqrt{A_2 + 1}$

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1. The first step is to identify the problem or question that needs to be answered. This involves understanding the context and the specific requirements of the task.

2. The second step is to gather relevant information and data. This can be done through research, consultation with experts, or by analyzing existing data sets.

3. The third step is to develop a plan or strategy to address the problem. This involves breaking down the problem into smaller, manageable parts and determining the best approach to solve each part.

4. The fourth step is to implement the plan. This involves carrying out the tasks and activities that have been identified in the plan.

5. The fifth step is to evaluate the results. This involves comparing the actual outcomes with the expected outcomes and identifying any areas for improvement.

6. The sixth step is to communicate the findings. This involves sharing the results of the analysis with the relevant stakeholders and providing recommendations for action.

7. The seventh step is to monitor and review the progress. This involves tracking the implementation of the plan and making adjustments as needed to ensure that the goals are being met.

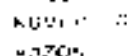
8. The eighth step is to document the process. This involves recording the steps taken and the results achieved, which can be used for future reference and to inform other projects.

9. The ninth step is to reflect on the experience. This involves thinking about what has been learned from the process and how it can be applied to other situations.

10. The tenth step is to celebrate success. This involves recognizing the achievements of the team and the individuals involved in the project.

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Figure 1. The effect of the concentration of the H_2O_2 solution on the amount of the released H_2O_2 from the H_2O_2 -loaded hydrogel. The amount of the released H_2O_2 was measured by the amount of the released H_2O_2 from the H_2O_2 -loaded hydrogel. The amount of the released H_2O_2 was measured by the amount of the released H_2O_2 from the H_2O_2 -loaded hydrogel.



$\bar{r}_{16} = 0.0000$ $\bar{r}_{17} = 0.0000$ $\bar{r}_{18} = 0.0000$ $\bar{r}_{19} = 0.0000$
 $\bar{r}_{20} = 0.0000$ $\bar{r}_{21} = 0.0000$ $\bar{r}_{22} = 0.0000$ $\bar{r}_{23} = 0.0000$

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1. The first step is to identify the problem. This involves understanding the current situation and what needs to be changed. It is important to involve all stakeholders in this process.

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1. The first step is to identify the variables involved in the problem. In this case, the variables are the number of hours worked (H) and the number of hours of leisure (L). The total number of hours available is 24 hours per day.

2. The second step is to write down the objective function, which is the function that we want to maximize or minimize. In this case, the objective function is the total utility (U), which is a function of the number of hours worked (H) and the number of hours of leisure (L).

3. The third step is to write down the constraints, which are the conditions that must be satisfied. In this case, the constraints are:

- The total number of hours available is 24 hours per day: $H + L = 24$.
- The number of hours worked (H) must be non-negative: $H \geq 0$.
- The number of hours of leisure (L) must be non-negative: $L \geq 0$.

4. The fourth step is to solve the problem using the method of Lagrange multipliers. This involves writing down the Lagrangian function, which is a function of the variables H and L, and the Lagrange multiplier λ . The Lagrangian function is:

$$\mathcal{L}(H, L, \lambda) = U(H, L) - \lambda(H + L - 24)$$

5. The fifth step is to take the partial derivatives of the Lagrangian function with respect to H, L, and λ , and set them equal to zero. This gives us the following system of equations:

$$\begin{aligned} \frac{\partial \mathcal{L}}{\partial H} &= \frac{\partial U}{\partial H} - \lambda = 0 \\ \frac{\partial \mathcal{L}}{\partial L} &= \frac{\partial U}{\partial L} - \lambda = 0 \\ \frac{\partial \mathcal{L}}{\partial \lambda} &= H + L - 24 = 0 \end{aligned}$$

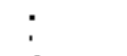
6. The sixth step is to solve this system of equations for H, L, and λ . This can be done by substituting the expression for λ from the first equation into the second equation, and then using the third equation to solve for H and L.

7. The seventh step is to check that the solution satisfies the constraints. In this case, the solution is:

$$H = 16, L = 8, \lambda = \frac{1}{2}$$

8. The eighth step is to interpret the results. The optimal number of hours worked is 16 hours per day, and the optimal number of hours of leisure is 8 hours per day. The Lagrange multiplier λ is $\frac{1}{2}$, which represents the marginal utility of leisure.

ABSTRACT



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$$\begin{pmatrix} 1 & 0 \\ 0 & 1 \end{pmatrix}$$

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