# Assignment 2.1: Maximizing Productivity

Following are the numbers for a clinic. There is one primary physician at the clinic who works with nurses to provide care to patients. The clinic is limited to one floor in a medical building. The first column gives the possible number of nurses that can be hired at the clinic. The second column gives the number of patient visits associated with each level of nurses hired. The third column represents the MPL of each additional nurse hired at the clinic.

|  |  |  |
| --- | --- | --- |
| Number of Nurses | Number of Visits (Q to TP) | Marginal Product of Labor (MPL) |
| 0 | 0 | - |
| 1 | 8 |  |
| 2 | 18 |  |
| 3 | 31 |  |
| 4 |  | 15 |
| 5 |  | 22 |
| 6 |  | 24 |
| 7 | 111 |  |
| 8 |  | 14 |
| 9 | 134 |  |
| 10 |  | 7 |

1. Identify the fixed inputs for the clinic.
2. Complete the table.
3. Describe the relationship between the number of nurses hired and clinic visits (output).
4. Identify the number of nurses where the point of diminishing returns occurs.
5. Use the data to provide recommendations to the clinic in terms of the productivity of the nurses hired and how this can be increased.