# Paired Comparison Matrix

Compare each item to all of the other items in turn and delete the lower priority number. Count the total number of times each item number remains and enter that number in the “How Many Times” cell. Then rank the items from highest to lowest based on the numbers in the “How Many Times” cells. If two cells have the same number of occurrences, refer back to the original comparison between those two items to determine the priority. Enter the new priority into the table at the bottom of the page.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Item A | Item B | Item C | Item D | Item E | Item F |
| A B | B C | C D | D E | E F |  |
| A C |
| A D | B D |
| A E | B E | C E |
| A E | B F | C F | D F |
| Item | A | B | C | D | E | F |
| How Many Times |  |  |  |  |  |  |
| Rank |  |  |  |  |  |  |

## New Priority

|  |  |
| --- | --- |
| 1 |  |
| 2 |  |
| 3 |  |
| 4 |  |
| 5 |  |
| 6 |  |

## Sample

Consider a situation with six projects to prioritize. The six projects are:

1. Network Upgrade Project
2. System Implementation Project
3. Website Project
4. Development Project
5. Training Project
6. Relocation Project

Without defining specific criteria to evaluate and rank each project, they were put into a paired comparison matrix. The following illustrates the results the paired comparison, and the new prioritized list of projects.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | A | B | C | D | E | F |
| A | C | D | D | F |  |
| C |
| D | D |
| A | B | C |
| A | F | C | D |
| Item | A | B | C | D | E | F |
| How Many Times | 3 | 1 | 4 | 5 | 0 | 2 |
| Rank | 3 | 5 | 2 | 1 | 6 | 4 |

## New Priority

|  |  |
| --- | --- |
| 1 | Development Project |
| 2 | Website Project |
| 3 | Network Upgrade Project |
| 4 | Relocation Project |
| 5 | System Implementation Project |
| 6 | Training Project |