

| Number of children | Frequency |
|--------------------|-----------|
| 1                  | 4         |
| 2                  | 6         |
| 3                  | 6         |
| 4                  | 6         |
| 5                  | 8         |
| 6                  | 6         |
| 7                  | 6         |
| 8                  | 6         |
| 9                  | 4         |
| 10                 | 3         |



A histogram showing the distribution of the number of non-zero elements in the matrix. The x-axis represents the number of non-zero elements (1 to 10), and the y-axis represents the frequency (1 to 12). The distribution is unimodal and centered around 4-7 non-zero elements.

| Number of non-zero elements | Frequency |
|-----------------------------|-----------|
| 1                           | 1         |
| 2                           | 8         |
| 3                           | 1         |
| 4                           | 11        |
| 5                           | 8         |
| 6                           | 8         |
| 7                           | 11        |
| 8                           | 1         |
| 9                           | 8         |
| 10                          | 7         |

