Directions:

1. Determine whether the following characteristics apply to mitosis, meiosis, or both by putting an X in the appropriate column(s).
2. Then, use the terms/characteristics to complete the Venn diagram.

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| **Characteristic** | **Mitosis** | **Meiosis** |
| A cell with 8 chromosomes would create four daughter cells with 4 chromosomes each |  |  |
| Two divisions |  |  |
| Four daughter cells are produced |  |  |
| Used for growth and asexual reproduction |  |  |
| One division |  |  |
| Two daughter cells are produced |  |  |
| The chromosome number is maintained from parent to daughter cells |  |  |
| Creates identical daughter cells |  |  |
| No regulation of the process can lead to cancer |  |  |
| Daughter cells are not identical to the parent cell |  |  |
| Produces Gametes |  |  |
| Takes place in somatic cells |  |  |
| Chromosomes move around in the cell during different phases |  |  |