**Meiosis vs Mitosis Worksheet**

Use the drawings provided to:

1. Draw the final product of Meiosis and Mitosis
2. Complete the table and answer the questions.

**Hint: this relates to the notes on Chromosomes and Humans!**

**Mitosis:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Prophase** | **Metaphase** | **Anaphase** | **Telophase** | **Daughter Cells** |
| **Drawing** |  |  |  |  |  |
| **# Homologous Pairs** |  |  |  |  |  |
| **# Chromosomes** |  |  |  |  |  |
| **# DNA Strands** |  |  |  |  |  |

1. When does the cell go through Mitosis?
2. Why does the cell go through Mitosis?

Meiosis

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Prophase 1** | **Metaphase 1** | **Anaphase 1** | **Telophase 1** | **Prophase 2** | **Metaphase 2** | **Anaphase 2** | **Telophase 2/ Gametes** |
| **Drawing** |  |  |  |  |  |  |  |  |
| **# Homologous Pairs** |  |  |  |  |  |  |  |  |
| **# Chromosomes** |  |  |  |  |  |  |  |  |
| **# DNA Strands** |  |  |  |  |  |  |  |  |

1. When does the cell go through Meiosis?
2. Why does the cell go through Meiosis?
3. How are mitosis and meiosis similar?
4. How are mitosis and meiosis different? And why are those differences important?