Mitosis Vs Meiosis

Name:

1. Compare Mitosis and Meiosis

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|  | MITOSIS | MEIOSIS |
| Purpose |  |  |
| Cell types which undergo each type of cell division |  |  |
| Number of divisions |  |  |
| Daughter Cells  Number  Haploid or Diploid  Identical or Unique  Number of chromosomes (in a human cell) |  |  |
| Difference in events of the phases |  |  |

2. Identify three similarities of mitosis and meiosis

(i) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(ii) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(iii) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mitosis or Meiosis or Both?

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|  | **Statement** |
| 1 | Can be a type of asexual reproduction |
| 2 | Part of process of sexual reproduction |
| 3 | Increases genetic diversity |
| 4 | Nuclear membrane dissolves |
| 5 | Cells split once |
| 6 | Daughter cells have same DNA as original cell |
| 7 | Daughter cells have different DNA |
| 8 | Daughter cells are haploid |
| 9 | Results in 2 daughter cells |
| 10 | Involves cells splitting in half |
| 11 | Produces gametes (sperm & ova) |
| 12 | Daughter cells are diploid |
| 13 | DNA condenses |
| 14 | DNA replicates before process starts |
| 15 | Cells splits twice |
| 16 | Chromosomes line up in the middle along the equator |
| 17 | Almost all cells go through this process |
| 18 | Daughter cells have 23 chromosomes |
| 19 | Daughter cells have 46 chromosomes |