**Mitosis Matching**

Write the letter corresponding to the correct match in the space provided.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| |  |  |  | | --- | --- | --- | | \_\_\_ | 1. | Genes |  |  |  |  | | --- | --- | --- | | \_\_\_ | 2. | Mitosis |  |  |  |  | | --- | --- | --- | | \_\_\_ | 3. | Chromatid |  |  |  |  | | --- | --- | --- | | \_\_\_ | 4. | DNA |  |  |  |  | | --- | --- | --- | | \_\_\_ | 5. | Metaphase |  |  |  |  | | --- | --- | --- | | \_\_\_ | 6. | Prophase |  |  |  |  | | --- | --- | --- | | \_\_\_ | 7. | Daughter Cells |  |  |  |  | | --- | --- | --- | | \_\_\_ | 8. | Cytokinesis |  |  |  |  | | --- | --- | --- | | \_\_\_ | 9. | Anaphase |  |  |  |  | | --- | --- | --- | | \_\_\_ | 10. | Parent Cell |  |  |  |  | | --- | --- | --- | | \_\_\_ | 11. | Sister Chromatids |  |  |  |  | | --- | --- | --- | | \_\_\_ | 12. | Nucleus |  |  |  |  | | --- | --- | --- | | \_\_\_ | 13. | Chromosome |  |  |  |  | | --- | --- | --- | | \_\_\_ | 14. | Interphase |  |  |  |  | | --- | --- | --- | | \_\_\_ | 15. | Chromatin |  |  |  |  | | --- | --- | --- | | \_\_\_ | 16. | Telophase |  |  |  |  | | --- | --- | --- | | \_\_\_ | 17. | Spindle Fiber |  |  |  |  | | --- | --- | --- | | \_\_\_ | 18. | Centromere |  |  |  |  | | --- | --- | --- | | \_\_\_ | 19. | Centriole | |  | |  |  | | --- | --- | | A. | chromosomes line up in the middle of the cell; spindle fibers attach at centromeres |  |  |  | | --- | --- | | B. | contains DNA |  |  |  | | --- | --- | | C. | spindle fibers shorten and chromosomes are pulled to each pole |  |  |  | | --- | --- | | D. | identical pieces of chromosome |  |  |  | | --- | --- | | E. | loosely coiled DNA (easy to read) |  |  |  | | --- | --- | | F. | instructions for a cell's life |  |  |  | | --- | --- | | G. | the "offspring" of a parent cell |  |  |  | | --- | --- | | H. | cell splits into two fully independent cells |  |  |  | | --- | --- | | I. | tightly coiled DNA (easy to move) |  |  |  | | --- | --- | | J. | centrioles and spindle fibers dissolve; a new nucleus forms |  |  |  | | --- | --- | | K. | pieces of DNA that code for traits |  |  |  | | --- | --- | | L. | cell division |  |  |  | | --- | --- | | M. | chromosomes after they split |  |  |  | | --- | --- | | N. | the beginning of mitosis; chromosomes, spindle fibers, and centrioles form; nucleus dissolves |  |  |  | | --- | --- | | O. | DNA "fishing line" (used to move DNA) |  |  |  | | --- | --- | | P. | holds sister chromatids together |  |  |  | | --- | --- | | Q. | DNA "fishing pole" (used to move DNA) |  |  |  | | --- | --- | | R. | G1 S and G2 phases of the cell cycle |  |  |  | | --- | --- | | S. | the original cell | |

**Answer key:**

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| --- | --- |
| **1.K**  **2.L**  **3.M**  **4.F**  **5.A**  **6.N**  **7.G**  **8.H**  **9.C**  **10.S** | **11.D**  **12.B**  **13.I**  **14.R**  **15.E**  **16.J**  **17O**  **18.P**  **19.Q** |