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Cell Division

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| **Across**  **2.** Biologists described the life of a cell as one cell division after another separated by an "in-between" period of growth.  **4.** Spindle fibers extend from a region called the centrosome, where tiny paried structures are located.  **6.** Second phase of mitosis, is generally the shortest.  **10.** Genetic information is bundled into packages of DNA  **11.** Third phase of mitosis, begins when sister chromatids separate and begin to move apart.  **12.** The second stage, the division of the cytoplasm. | **Down**  **1.** The fourth and final phase of mitosis.  **3.** Duplicated strands of the DNA molecule canbe seen to be attached along their length at an area.  **5.** First stage of the process,division of the cell nucleus.  **7.** First phase of mitosis, usually the longest and may take up half of the total time required to complete mitosis.  **8.** Each DNA strand in the duplicated chromosome is referred to as a sister chromatid.  **9.** The chromosomes in eukaryotic cells form a close association with histones, a type of protein. |