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|-------------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|             | < > | attachment of the centromeres of the chromosomes to the spindle fibers and then the chromosomes are aligned on the cell's equator >                 |
| Anaphase    | < > | < Anaphase is the splitting of the chromosomes along the centromeres. Ends when the chromosomes reach the end of the spindle fibers >               |
| Telophase   | < > | < A nuclear membrane forms around each set of chromosomes and a nucleus forms >                                                                     |
| Cytokinesis | < > | < The cell (which at this point has two nuclei) is split through the pinching of the cytoplasm. This results with 2 identical cells being formed. > |

3. Analyze: Use your summaries and the Gizmo to answer the following questions:

- A. What are the four phases of mitosis < **Prophase, Metaphase, Anaphase, Telephase** >
- B. During which phase is the DNA duplicated < **S stage of interphase** >
- C. What is the relationship between chromatin and chromosomes < **chromosomes are the condensed form of chromatin.** >
- D. In which phase are chromatids pulled apart? < **Anaphase** >