

| 1. | The Cell Cycle is a series of events that occur during four main stages. The first stage is called GAP 1 or G1. What are the other three stages? Draw a simple diagram to show the order of these four stages: | | | | | | |
|----|---|--|--|--|--|--|--|
| | G1 | | | | | | |
| 2. | Use the words from the following list to correctly answer the questions about Cell | | | | | | |
| | Synthesis Interphase Mitosis DNA replication Gap 1 Gap 2 Cytokinesis Gap 2 Checkpoint | | | | | | |
| | a) The cell nucleus divides during | | | | | | |
| | b) The phase with the longest period of growth is | | | | | | |
| | c)occurs during the Gap 1 phase. | | | | | | |
| | d) The phases that make up the Interphase stage are, and | | | | | | |
| | e) The cell enters the Synthesis phase once is reached. | | | | | | |
| | f) During Synthesis, takes place. | | | | | | |
| | g) Between the Gap 2 and mitosis phases, the cell moves through a | | | | | | |
| | h) Following mitosis, the cell divides during | | | | | | |
| | Complete the following multiple choice questions about mitosis: | | | | | | |
| 3. | Which of the following is not true of mitosis: | | | | | | |
| | Mitosis is a vital part of the growth and repair of living tissue. Mitosis is a type of cell division, which results in two daughter cells genetically identical to the parent. Mitosis involves the replication of DNA, the genetic material in the chromosomes. Cytokinesis is not a stage of mitosis. | | | | | | |
| 4. | What is the correct order of these mitosis phases: anaphase, telophase, metaphase, prophase telophase, prophase, metaphase, anaphase prophase, metaphase, anaphase prophase, anaphase, telophase prophase, anaphase, telophase | | | | | | |
| 5. | Chromosomes align in the centre of the cell during which phase? | | | | | | |
| | anaphase telophase prophase metaphase | | | | | | |





males and _____ of females.

6. Select which of the following statements are correct during prophase:

| | A mitotic spir The centrom | ndle forms. | ach chromosome. osite ends of the ce es. | | |
|---|-------------------------------|----------------------|--|---------------------------------------|--------|
| 7. | The sister chron | natids separate ar | nd move to opposi | te ends of the cell during: | |
| | anaphase | telophase | prophase | metaphase | |
| 8. During which mitosis phase does the nuclear envelope form? | | | | | |
| | anaphase | telophase | prophase | metaphase | |
| 9. (| Complete the fo | ollowing about me | iosis: | | |
| Me | eiosis is a type of | cell division produ | ucing | , or sex cells, with | as |
| mo | any chromosome | es as other cells. H | uman sex cells hav | echromosomes. | |
| Thr | ough meiosis, or | ne cell becomes _ | daughter | cells. During the first cell division | ١, |
| me | eiosis one, crossir | ng over results in a | n exchange of | material. | |
| | | | | . Meiosis two is si | imilar |
| to | | | | productive system, in the | |