

Write a Question That might be on the test.

Q. What is stage 1 called?

Q. What happens at the end of Telophase?

### 3.5 – **CELL DIVISION**

- Cell cycle – the regular sequence of \_\_\_\_\_ and \_\_\_\_\_ that cells undergo
- It is divided into \_\_\_\_\_ main stages
  - \_\_\_\_\_
  - \_\_\_\_\_
  - \_\_\_\_\_

#### A. Stage 1: **Interphase**

1. The \_\_\_\_\_ stage of the cell cycle
  - \_\_\_\_\_
  - Makes a copy of its DNA (\_\_\_\_\_)
  - Prepares to divide into \_\_\_\_\_ cells

#### B. Stage 2: \_\_\_\_\_

1. The stage during which the cell's nucleus \_\_\_\_\_
2. Divided into \_\_\_\_\_ parts
  - a. Prophase
    - ❖ Chromatin condenses to form \_\_\_\_\_
    - ❖ \_\_\_\_\_ move to opposite ends of cell
    - ❖ \_\_\_\_\_ form \_\_\_\_\_
    - ❖ \_\_\_\_\_ breaks down
  - b. Metaphase
    - ❖ Chromosomes attach to \_\_\_\_\_ at their \_\_\_\_\_
    - ❖ Chromosomes line up across the \_\_\_\_\_ of cell
  - c. Anaphase
    - ❖ \_\_\_\_\_ separate
    - ❖ Chromatids move to \_\_\_\_\_ ends of cell
    - ❖ Cell \_\_\_\_\_
  - d. Telophase
    - ❖ Chromosomes \_\_\_\_\_
    - ❖ New \_\_\_\_\_ form

Q. How many stages of Cell division?

Q. What happens in cytokinesis?

**C. Stage 3: Cytokinesis**

1. The \_\_\_\_\_ stage of the cell cycle
  - Cytoplasm \_\_\_\_\_
  - Organelles are distributed into each of the two new “\_\_\_\_\_”
2. Cytokinesis in animal cells
  - Cell membrane \_\_\_\_\_
3. Cytokinesis in plant cells
  - Cell wall \_\_\_\_\_ squeeze together
  - \_\_\_\_\_ forms across the middle of the cell.

Summary (about 5 sentences):