CELL CYCLE Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Directions:

1. Label each of the following: Interphase, Prophase, Metaphase, Anaphase, Telophase, Cytokinesis, spindle fibers, chromosomes
2. Put the pictures in order by numbering them 1-6.
3. Put a star next to each of the 4 phases of mitosis.
4. Answer the questions at the bottom.

1. What moves the chromosomes during mitosis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What are the four phases of mitosis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. How many daughter cells are created from mitosis and cytokinesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. In the cell pictured above, how many chromosomes are present during prophase? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. If a human cell reproduces by mitosis and has 46 chromosomes, how many chromosomes will be in each daughter cell? \_\_\_\_\_\_
6. If a dog cell has 72 chromosomes, how many daughter cells will be created during a single cell cycle? \_\_\_\_\_\_
7.Each of these daughter cells will have how many chromosomes? \_\_\_\_\_\_\_\_\_\_\_\_