

Name _____ Date _____

Use with textbook pages 156-157.

Mitosis

Summarize what is happening in the cell for each phase of mitosis. Then draw a labelled diagram of each phase.

Phase	What is happening in the cell?	Labelled diagram
prophase		
metaphase		
anaphase		
telophase		

Name _____ Date _____

Use with textbook pages 150-161.

The cell cycle and mitosis

Match each Term on the left with the best Descriptor on the right. Each Descriptor may be used only once.

Term	Descriptor
1. ___ cell cycle	A. first and longest stage of the cell cycle
2. ___ cytokinesis	B. process during which the cell copies DNA information in the nucleus
3. ___ interphase	C. result of uncontrolled cell division
4. ___ mitosis	D. process in which the duplicated contents of the cell's nucleus divide into two equal parts
5. ___ replication	E. three stages of the life of a cell
	F. final stage of the cell cycle, which separates the two nuclei and the cell contents into two identical cells

Circle the letter of the best answer.

6. Tiny tube-like structures made of protein are called
- A. spindle fibres
 - B. chromosomes
 - C. nucleolus
 - D. DNA replication

7. Which stage is the longest in the cell cycle?

- A. interphase
- B. mitosis
- C. cytokinesis
- D. DNA replication

8. The phase of mitosis where the chromosomes line up across the middle of the cell is

- A. anaphase
- B. metaphase
- C. prophase
- D. telophase

9. The phase of mitosis in which the duplicated chromosomes form into an X shape is

- A. anaphase
- B. metaphase
- C. prophase
- D. telophase

10. The phase of mitosis in which duplicated chromosomes move apart to opposite ends of the cell is

- A. anaphase
- B. metaphase
- C. prophase
- D. telophase

11. The phase of mitosis in which a nucleolus forms around the chromosomes is

- A. anaphase
- B. metaphase
- C. prophase
- D. telophase