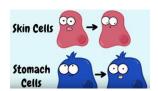
Name: Date:		
	Name:	Date:

## **Cell Cycle with the Amoeba Sisters**



Find the video at <a href="https://www.youtube.com/watch?v=f-ldPgEfAHI">https://www.youtube.com/watch?v=f-ldPgEfAHI</a> or search Youtube for amoeba sisters mitosis

1. Mitosis makes cells that are \_\_\_\_\_



- 2. Which activities happen during S of Interphase?
  - 1
  - 2
  - 3
- 3. Where is DNA found?
- 4. What is DNA? \_\_\_\_\_



5. How does the DNA in the new cells compare to the original cell?



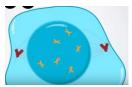
- 6. Inside the nucleus DNA is organized into \_\_\_\_\_
- 7. How many chromosomes do humans have? \_\_\_\_\_\_



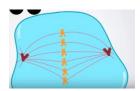
8. When is DNA replicated (synthesized)?



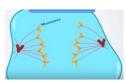
9. Fill in the MITOSIS phase names below:



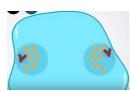
10. In Prophase, what happens to nucleus and DNA? \_\_\_\_\_



11. In metaphase where are chromosomes?



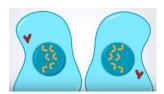
12. In anaphase the chromosomes \_\_\_\_\_



13. In telophase where are the chromosomes? \_\_\_\_\_\_

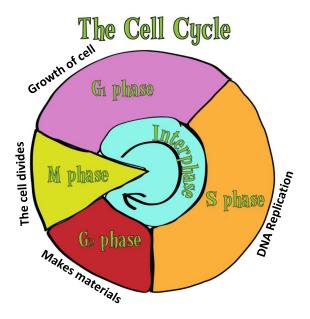
14. How many chromosomes will each new human cell have? \_\_\_\_\_

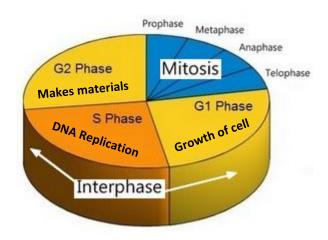
15. How will the two new cells compare?



16. What is the final process that splits the cells?

## What is going on during Interphase of the cell cycle?



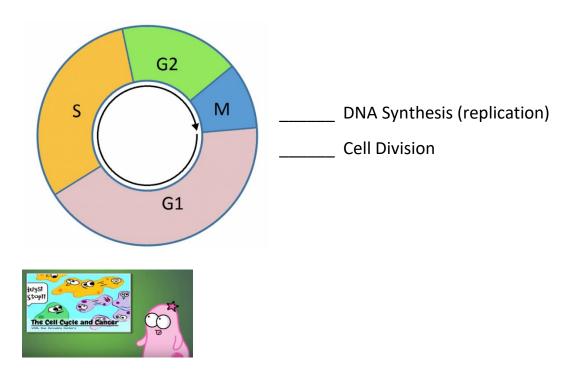


## Study the images above. Answer the following questions.

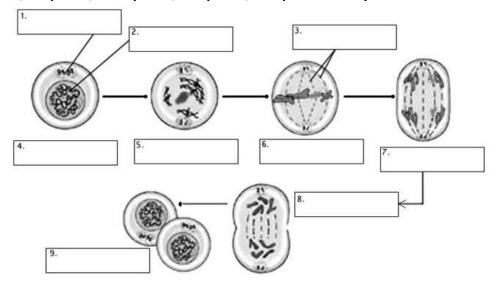
- 1. What are the 3 phases of Interphase?
  - a. S, G2, M
  - b. G2, M, G1
  - c. M, G1, S
  - d. G1, S, G2
- 2. What are the four phases of Mitosis?
  - a. G1, S, G2, M
  - b. Prophase, Metaphase, Anaphase, Telophase
  - c. Interphase, G1, S, G2
  - d. Mitosis, S, M, Interphase
- 3. Which part of the cell cycle is longer?
  - a. Mitosis
  - b. Interphase
- 4. When does DNA Replicate?
  - a. G1
  - b. S
  - c. G2
  - d. Mitosis

- 5. What happens in G1?
  - a. The cell grows
  - b. The cell makes materials
  - c. The cell divides
  - d. The cell replicates DNA
- 6. What happens in S?
  - a. The cell grows
  - b. The cell makes materials
  - c. The cell divides
  - d. The cell replicates DNA
- 7. What happens in G2?
  - a. The cell grows
  - b. The cell makes materials
  - c. The cell divides
  - d. The cell replicates DNA
- 8. What happens in Mitosis?
  - a. The cell grows
  - b. The cell makes materials
  - c. The cell divides
  - d. The cell replicates DNA

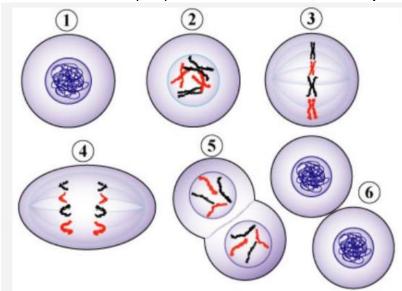
9. Fill in the blanks on the right with the phase each event occurs in.



- 10. Uncontrolled cell growth leads to
  - a. Cancer
- b. Disease
- c. Healthy cells
- d. Cell death
- 11. Write in the phases of the Cell Cycle (Interphase + Mitosis):
  Use Interphase, Prophase, Metaphase, Anaphase, Telophase and Cytokinesis

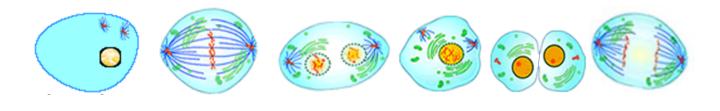


12. Name the Cell Cycle phases below. Word Bank: Prophase, Anaphase, Interphase, Telophase

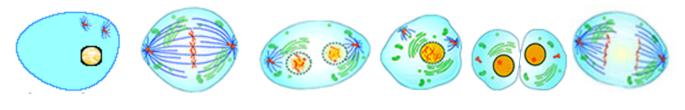


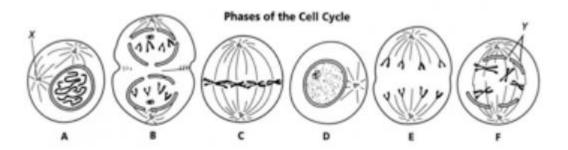
- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

1. Place the letter of correct stage of the cell cycle below each diagram (I, P, M, A, T, C):



2. Number the following phases in order of occurrence:





3. What is the correct order of the stages above? \_\_\_\_\_, \_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

