

Cell to Organism

Directions: Complete the following questions based on the materials that you have reviewed in the lesson. To demonstrate proficient knowledge, you must score 80% or above.

Name & Date *

Jailane 

$$\frac{5}{6} = 83\%$$

Which is the correct order of Mitosis? *

20 points

- Anaphase, Telophase, Metaphase, Prophase
- Prophase, Anaphase, Metaphase, Telophase
- Prophase, Metaphase, Anaphase, Telophase
- Metaphase, Anaphase, Telophase, Prophase

During what stage of Mitosis do sister chromatids begin pulling AWAY from each other? *

20 points

- prophase
- anaphase
- telophase
- metaphase

What is cell differentiation? *

20 points

- the interaction of cells from different organ systems
- the process by which cells divide
- the process by which cells grow
- the process by which cells become different types of cells

Why is the cell cycle important? *

20 points

- it enables organisms to grow, develop, and maintain healthy cell tissue
- it regulates the use of nutrients and energy by organisms
- it causes fertilization of eggs, enabling sexual reproduction
- it determines the fate of undifferentiated stem cells in organisms

Mitosis is the stage of the cell cycle during which *

20 points

- the cell's nucleus divides into two new nuclei
- the cell divides into two new cells
- the cell's DNA is replicated
- the cell's cytoplasm divides

What are chromatids? *

20 points

- identical strands of chromosomes
- doubled rods of condensed chromatin
- identical daughter cells
- pigments that absorb the energy in sunlight

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