

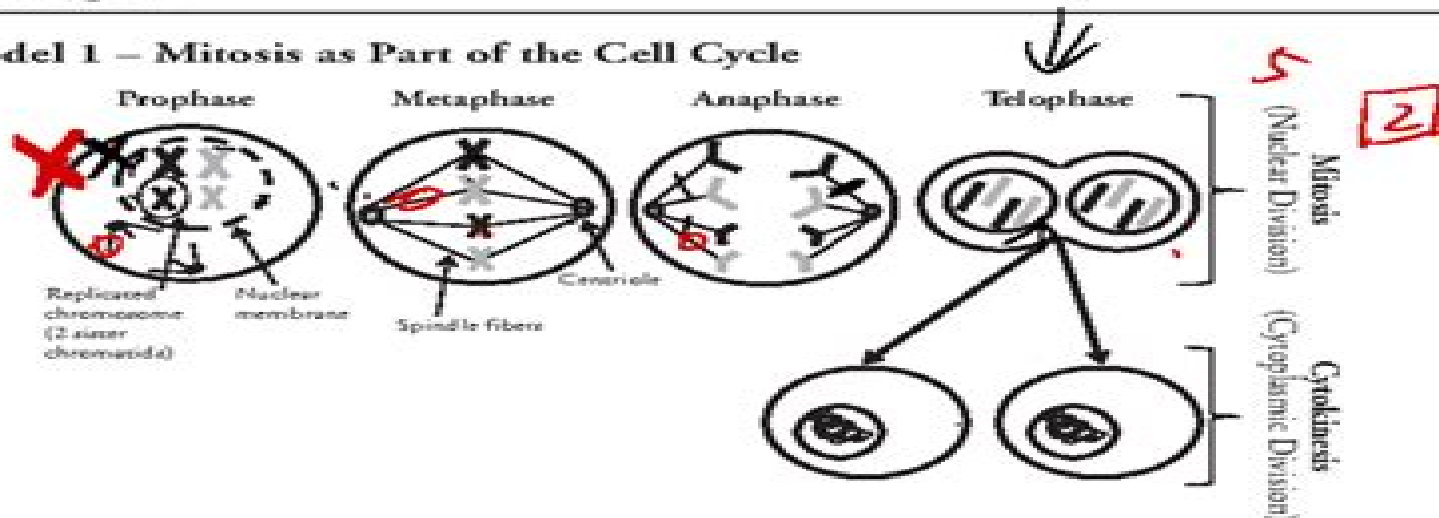
Mitosis

How do living things grow and repair themselves?

Why?

Living things must grow and develop. At times they suffer injuries or damage, or cells simply wear out. New cells must be formed for the organism to survive. What process must occur to make a new, properly-functioning cell?

Model 1 – Mitosis as Part of the Cell Cycle



1. Refer to Model 1. List the four phases in the mitosis process.

Pro phase , Metaphase , Anaphase , Telophase

2. Where is mitosis in the cell cycle? Before G₁ and after G₂.

3. What three phases of the cell cycle are considered interphase?

G₁ , Synthesis , G₂ .

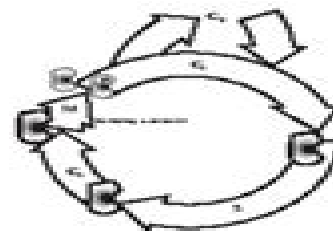
4. Refer to the cell cycle shown.

- a. How many cells are present at the beginning of mitosis?

one

- b. How many cells are present at the end of mitosis?

Two



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