Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I CAN** explain and describe how animal & plant cells produce more cells.

Period \_\_\_Date \_\_\_\_\_\_\_\_\_

**Cell Cycle NOTES**

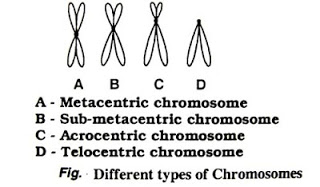
The \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ occurs in \_\_\_\_\_\_\_\_\_steps.

**1st Step**: (first stage) The cell \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chromosomes & organelles are \_\_\_\_\_\_\_\_\_\_\_ (# doubles)

\_\_\_\_\_\_\_\_\_\_\_\_

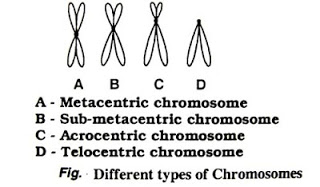
This ends this first stage of the cycle.

[](http://1.bp.blogspot.com/-7LwAsleF8do/UK6sPnj11HI/AAAAAAAAASo/m-iek4obB98/s1600/cell+biology+(10).JPG)

**MITOSIS** (second stage)

**2nd step** (1st phase): \_\_\_\_\_\_\_\_\_\_\_\_begins \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_membrane dissolves.

[](http://1.bp.blogspot.com/-7LwAsleF8do/UK6sPnj11HI/AAAAAAAAASo/m-iek4obB98/s1600/cell+biology+(10).JPG)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_condense—shorten and thicken.

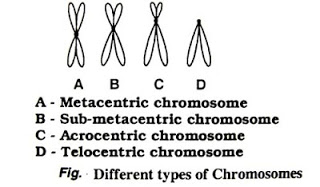
\_\_\_\_\_\_\_\_\_\_\_\_\_ attach at the centromere.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -- - - - - - - - - - - - - - - - - - - - - - - - - - - - -- - - - - - - - -

**3rd step** (2nd phase):

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ line up on the equator.

Sister chromatids

[](http://1.bp.blogspot.com/-7LwAsleF8do/UK6sPnj11HI/AAAAAAAAASo/m-iek4obB98/s1600/cell+biology+(10).JPG)

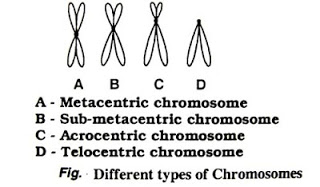
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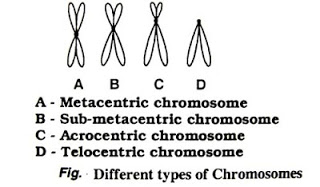
**4th step** (3rd phase) : Chromosomes \_\_\_\_\_\_\_\_\_\_\_\_\_and are pulled to opposite sides of the

cell by the spindle fibers.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sister

[](http://1.bp.blogspot.com/-7LwAsleF8do/UK6sPnj11HI/AAAAAAAAASo/m-iek4obB98/s1600/cell+biology+(10).JPG)

[](http://1.bp.blogspot.com/-7LwAsleF8do/UK6sPnj11HI/AAAAAAAAASo/m-iek4obB98/s1600/cell+biology+(10).JPG)

chromatids

split

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -- - - - - - - - - - - - - - - - - - - - - - - - - - - - -- - - - - - - - -

**5th step** (4th phase) : The nuclear membrane forms around the 2 sets of chromosomes

forming two new \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Chromosomes unwind, the spindle fibers disappear.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ends

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6th step** (third stage) : The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_splits in two.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The cell membrane moves inward to create two separate identical cells.

These two new cells are called daughter cells.