



BIOLOGY

BOOKS - PSEB

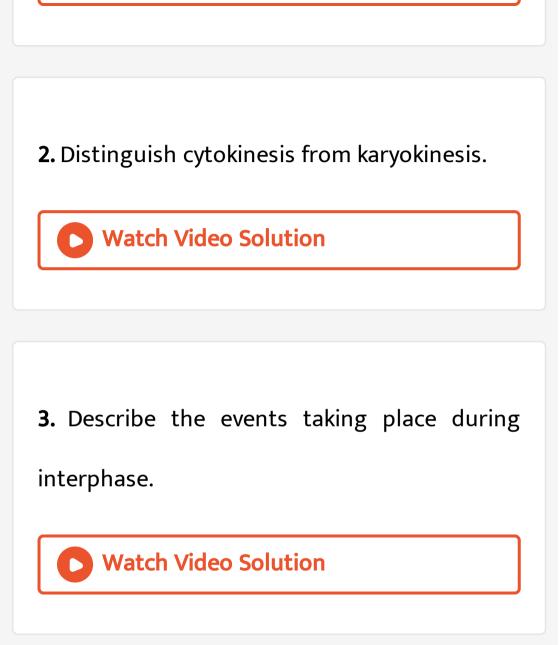
CELL CYCLE AND CELL DIVISOIN



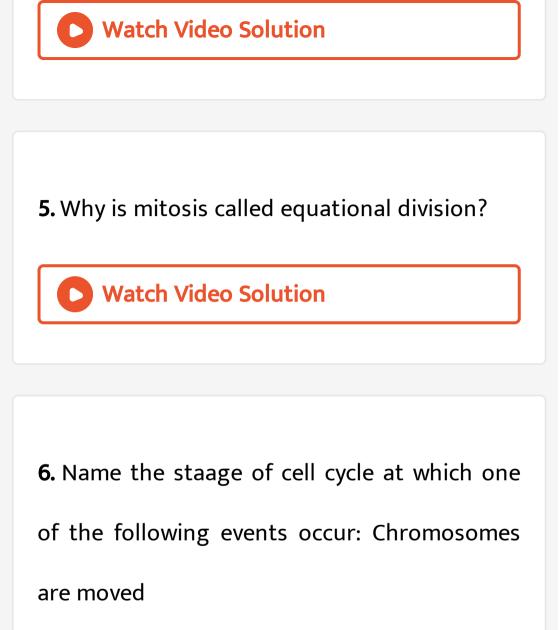
1. What is the average cell cycle span for a

mammalian cell?





4. What is G_o (quiescent phase) of cell cycle?



7. Name the stage of cell cycle at which one of

the following events occur: Centromere splits

and chromatids separate.



8. Name the stage of cell cycle at which one of

the following events occur: Pairing between

homologous chromosomes takes place.

9. Name the stage of cell cycle at which one of the following events occur: Crossing over between homologous chromosomes takes place.

Watch Video Solution

10. Describe the following : Draw a diagram to

illustrate your answer: synapsis

11. Describe the following: Draw a diagram to

illustrate your answer: chiasmata

Watch Video Solution

12. How does cytokinesis in plant cells differ

from that in animal cells?

13. Find examples where the four daughter cells from meiosis are equal in size and where they are found unequal in size.



14. Distinguish anaphase of mitosis from anaphase I of meiosis.

15. List the main differences between mitosis and meiosis. Watch Video Solution **16.** What is the significance of meiosis? Watch Video Solution **17.** Discuss with your teacher about: haploid

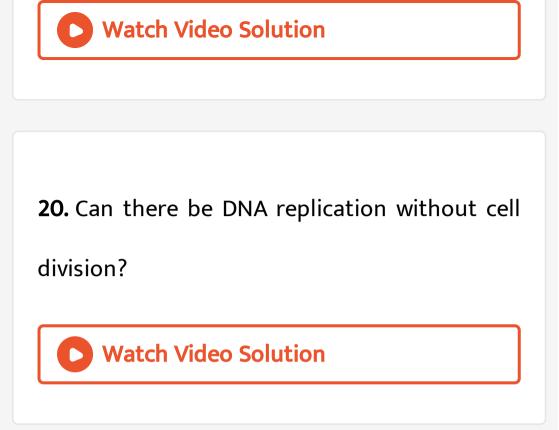
insects and lower plants where cell-division



18. Discuss with your teacher about: some haploid cells in higher plants where cell-divison does not occur.

Watch Video Solution

19. Can there be mitosis without DNA replication in 'S' phase?



21. Anaylse the events during every stage of cell cycle and notice how the followign two parameters change: number of chromosomes (N) per cell





22. Anaylse the events during every stage of cell cycle and notice how the followign two parameters change: amounth of DNA content (C) per cell