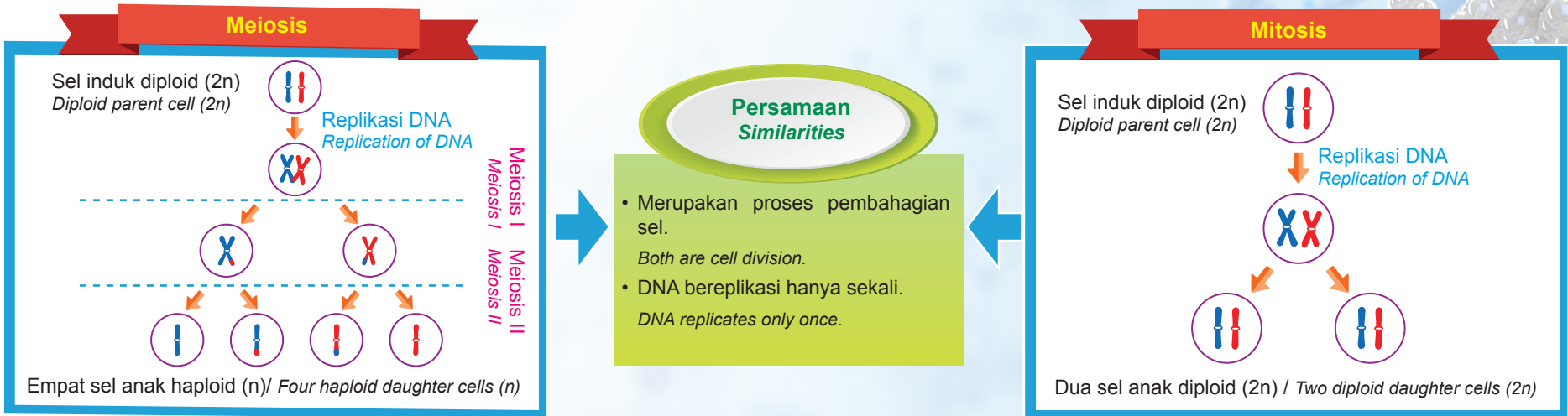




PERBANDINGAN ANTARA MEIOSIS DENGAN MITOSIS

COMPARISON BETWEEN MEIOSIS AND MITOSIS



Perbezaan/ Differences

Sel dalam organ pembiakan. / Occurs in germ cells.	Jenis sel / Process occurs in	Sel soma. / Occur in normal body cell (somatic cell).
Menghasilkan gamet untuk pembiakan seks. / To produce gametes for sexual reproduction.	Tujuan / Purpose	Menghasilkan sel baharu untuk pertumbuhan dan penggantian sel yang rosak dan mati. / To produce new cells for growth and replacement of damaged and dead cells.
Melibatkan dua kali pembahagian nukleus. / Involves two nuclear divisions.	Bilangan pembahagian / Number of nuclear divisions	Melibatkan satu kali pembahagian nukleus. / Involves only one nuclear division.
Berlaku semasa profasa I. / Occurs during prophase I.	Sinapsis / Synapsis	Tidak berlaku. / Does not occur.
Berlaku semasa profasa I. / Occurs during prophase I.	Pindah silang antara kromatid tidak seiras / Crossing over between non-identical chromatids	Tidak berlaku. / Does not occur.
Kromosom homolog tersusun bersebelahan di satah khatulistiwa semasa metafasa I. / Homologous chromosomes are arranged side by side at the cell equator during metaphase I.	Susunan kromosom / Arrangement of chromosomes	Kromosom tersusun secara rawak di satah khatulistiwa semasa metafasa. / Chromosomes are arranged randomly at the cell equator during metaphase.
Empat sel anak (sel gamet). / Four daughter cells (gamete cells).	Bilangan sel anak / Number of daughter cells	Dua sel anak (sel soma). / Two daughter cells (somatic cells).
Separuh daripada bilangan kromosom sel induk (haploid, n). / Half the number of chromosomes of the parent cell (haploid, n).	Bilangan kromosom sel anak / Number of chromosomes in daughter cell	Bilangan kromosom yang sama dengan sel induk (diploid, 2n). / Same number of chromosomes as in the parent cell (diploid, 2n).
Berbeza daripada sel induk dan antara satu sama lain. / Different from the parent cell and from each other.	Kandungan genetik sel anak / Genetic content in daughter cells	Seiras secara genetik dengan sel induk dan antara satu sama lain. / Genetically identical to the parent cell and with each other.
Ada. / Yes.	Variasi genetik / Genetic variation	Tiada. / No.