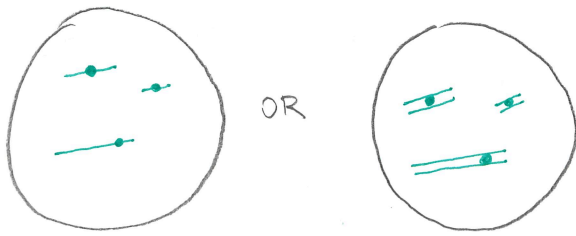
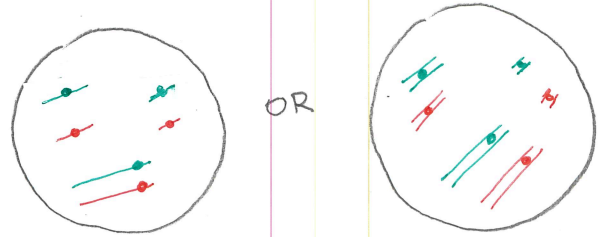


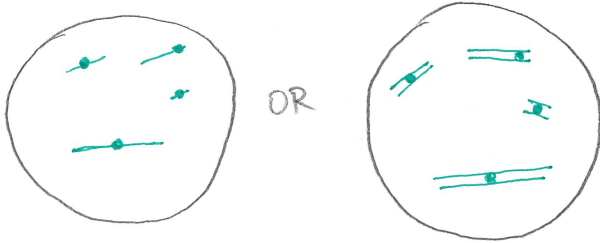
1a) haploid with 3 chromosomes ($n=3$)



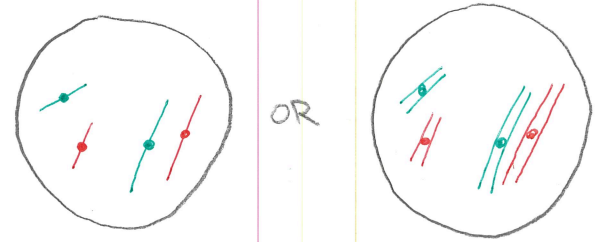
b) diploid with 6 chromosomes ($2n=6$)



1c) haploid with 4 chromosomes ($n=4$)

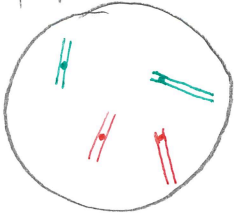


d) diploid with 4 chromosomes ($2n=4$)

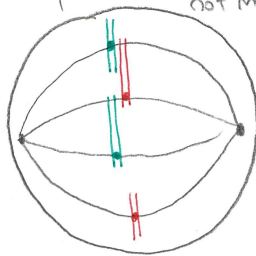


2) Mitosis (diploid, $2n=4$)

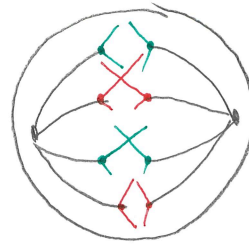
prophase



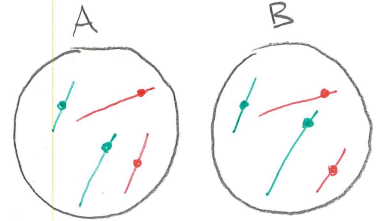
metaphase (Note: colour order does not matter)



anaphase

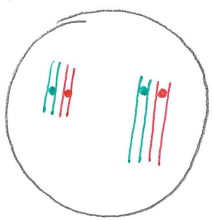


daughter cells (2)

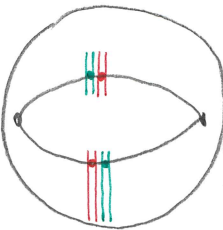


3) Meiosis (diploid, $2n=4$)

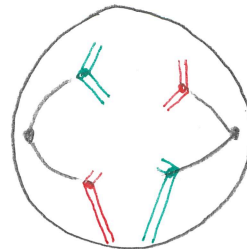
prophase I



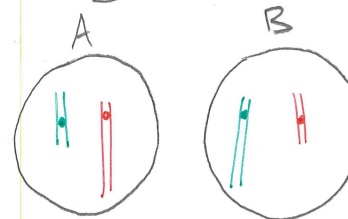
metaphase I (Note: colour order could be different)



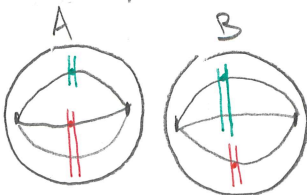
anaphase I



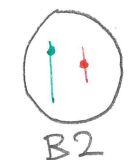
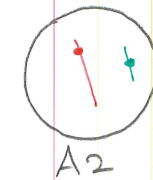
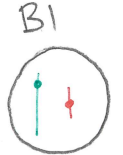
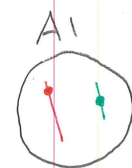
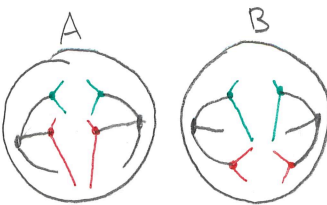
daughter cells (2)



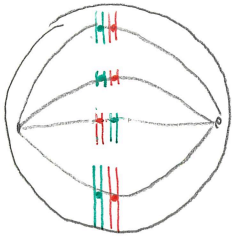
metaphase II



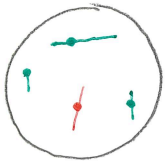
anaphase II



4) a) diploid with 8 chromosomes, metaphase I

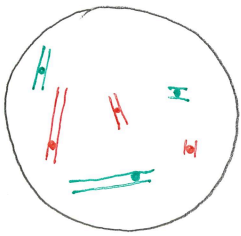


c) haploid with 4 chromosomes, after Meiosis II

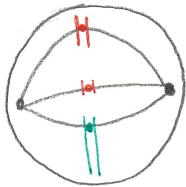


(any combination of colours etc; all chromosomes need to be unique though)

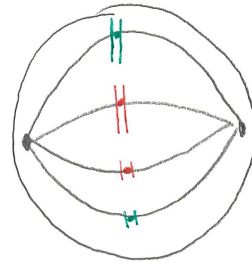
e) diploid with 6 chromosomes, prophase I



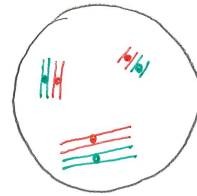
g) $n=3$ cell, metaphase II



b) diploid with 4 chromosomes, metaphase of mitosis



d) diploid with 6 chromosomes, prophase I



f) diploid with 4 chromosomes, anaphase I

