

Comparison of Mitosis and Meiosis

MITOSIS

MEIOSIS

Name of cell produced	SOMATIC (body	GAMETES (sperm and egg)
Purpose	Growth & Maintenance	Reproduction
# chromosomes	46 (same as original cell) DIPLOID	23 (half the original cell) HAPLOID
# new cells produced	2	4

MITOSIS: 2 Diploid nuclei are produced from one Diploid nucleus

MEIOSIS: 4 Haploid nuclei are produced from one Diploid nucleus

******* the fusion of haploid gametes to form a diploid zygote(fertilization), which then develops to produce a mature, multicellular adult, is the key feature of Sexual Reproduction