

NAME **Answer Key**

Mitosis and Meiosis Comparison

Fill in the blanks comparing mitosis and meiosis

	Mitosis	Meiosis
Purpose of the process	Growth and repair	Genetic diversity
Type of reproduction	Asexual	Sexual
Number of daughter cells produced	2	4
Number of divisions	1	2
Genetically identical or different daughter cells (compared to each other)	Identical	Different
Contains homologous chromosomes	No	Yes
Chromatin condenses into chromosomes	Yes	Yes
Type of cells produced	Body cells	Sex cells
Daughter cells compared to parent cells (identical or different)	Identical	Different
Haploid or diploid daughter cells	Diploid	Haploid
Crossing over occurs	No	Yes
Interphase occurs	Yes	Yes

Compare mitosis and meiosis by circling the correct answer

	Mitosis	Meiosis
Purpose of the process	Genetic diversity / Growth and repair	Genetic diversity / Growth and repair
Type of reproduction	Asexual/ sexual	Asexual/ sexual
Number of daughter cells produced	2 /4	2/ 4
Number of divisions	1 /2	1/ 2
Genetically identical or different daughter cells (compared to each other)	Different/ Identical	Different /Identical
Contains homologous chromosomes	Yes/ No	Yes /No
Chromatin condenses into chromosomes	Yes /No	Yes /No
Type of cells produced	Body cells /Sex cells	Body cells/ Sex cells
Daughter cells compared to parent cells (identical or different)	Different/ Identical	Different /Identical
Haploid or diploid daughter cells	Haploid/ Diploid	Haploid /Diploid
Crossing over occurs	Yes/ No	Yes /No
Interphase occurs	Yes /No	Yes /No

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Mitosis and Meiosis Venn Diagram

Fill in the Venn diagram using the information below

2 daughter cells, produces sex cells, DNA replication occurs, 4 daughter cells, 2 divisions, chromatin condenses into chromosomes, homologous chromosomes pair up, 1 division, chromosome # stays the same, asexual reproduction, chromosome # divided in half, interphase, sexual reproduction, produces body cells, crossing over occurs, cytokinesis

