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Name	Class/Period	Date	

Contrasting Mitosis and Meiosis

<u>Directions</u>: Compare and contrast mitosis and meiosis by answering the questions below.

Questions	Mitosis	Meiosis
Number of cells at <u>beginning</u> of division?		
Is <u>parent</u> cell haploid or diploid?		
Number of cells at <u>end</u> of division?		
Are <u>daughter</u> cells haploid or diploid?		
Are daughter cells identical to parent cell?		
Are daughter cells identical to each other?		
In humans, # of chromosomes at beginning of division?		
In humans, # of chromosomes at <u>end</u> of division?		
How many divisions occur?		
In what type of cells does the division occur?		
What is the purpose of this type of division?		

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Contrasting Mitosis and Meiosis

<u>Directions</u>: Compare and contrast mitosis and meiosis by answering the questions below.

Questions	Mitosis	Meiosis
Number of cells at <u>beginning</u> of division?	1	1
Is <u>parent</u> cell haploid or diploid?	diploid	diploid
Number of cells at <u>end</u> of division?	2	4
Are <u>daughter</u> cells haploid or diploid?	diploid	haploid
Are daughter cells identical to parent cell?	yes	no
Are daughter cells identical to <u>each other</u> ?	yes	no
In humans, # of chromosomes at beginning of division?	46	46
In humans, # of chromosomes at end of division?	46	23
How many divisions occur?	1	2
In what type of cells does the division occur?	body cells (somatic cells)	sex/reproductive cells (gametes)
What is the purpose of this type of division?	to produce identical cells; to increase the number of cells; to replace cells	to produce gametes for sexual reproduction

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