## 35. Which phase of the mitosis is the shortest? Answer: Anaphase

## Fill in the following table

		Mitosis	Meiosis
36.	Number of cell divisions	One	Two
37.	Number of daughter cells		Four
	G	Two	
38.	Genetic makeup of the		Much different
	daughter cells	Clones	

## Compare the events that occur in each of these phases

		Mitosis	Meiosis
39.	Prophase	n/a	homologous chromosomes in dergo
		_	
40.	Metaphase	1050	or omosomes line up
		chromosomes line up	homologous
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41.	Arraphae	<b>3</b> Chromatids	homologs separate

	Meiosis I	Meiosis II
42. Number of cells entering	there are 2 daughter cells	there are 4 daughter cells
43. Ploidy of cells entering	Haploid	four haploid daughter
44. Events happening in Prophase	homologous pairs	separate into chromosomes
45. Events happening in Anaphase	homologous chromosomes separate	movies to opposite ends of the cell

	YY x yy					
18	Axial X Terminal AA x aa	Aa	aa	Flower position	axial	terminal
19	Tall X Short TT X tt	Tt	tt	Plant height	tall	short

For each phenotype, give all possible genotypes.

Curly hair is dominant to straight hair

Phenotype
20. straight
50% chance
21. curly

Pointed heads are dominant to round leads.

Phenotype
22. pointed
50% chance
50% chance
50% chance
50% chance

Oompahs can have red (R), blue, or purple hair. The allele that controls this trait is **INCOMPLETELY DOMINANT**, where purple hair is caused by the heterozygous condition (Rr). Show a "key" for the genotypes and phenotypes of hair color. I completed the one for Purple below.

Genotype		Phenotype
24.	Red	(RR) RED