

**Worksheet 17**

**Meiosis Overview**

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**PART A** Answer the following questions on the lines provided.

1. What are homologous chromosomes?  
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2. What are sister chromatids?  
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3. When during meiosis do homologous chromosomes separate?  
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4. When during meiosis do sister chromatids separate?  
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5. Which are more similar, two sister chromatids or two homologous chromosomes?  
Explain your answer.  
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6. Explain the difference between a diploid cell and a haploid cell.  
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7. A haploid gorilla cell contains 24 chromosomes. How many chromosomes would a diploid gorilla cell contain?  
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8. A diploid pea plant cell contains 14 chromosomes. How many chromosomes would a haploid pea plant cell contain?  
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9. Are eggs and sperm haploid or diploid?  
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10. Are your liver cells haploid or diploid?  
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