

**Chapter 14**

**The Human Genome**

**Section 14–1 Human Heredity (pages 341–348)**

*This section explains what scientists know about human chromosomes, as well as the inheritance of certain human traits and disorders. It also describes how scientists study the inheritance of human traits.*

**Human Chromosomes (pages 341–342)**

1. How do biologists make a karyotype? \_\_\_\_\_  
\_\_\_\_\_
2. Circle the letter of each sentence that is true about human chromosomes.
  - a. The X and Y chromosomes are known as sex chromosomes because they determine an individual’s sex.
  - b. Males have two X chromosomes.
  - c. Autosomes are all the chromosomes, except the sex chromosomes.
  - d. Biologists would write 46XY to indicate a human female.
3. Complete the Punnett square below to show how the sex chromosomes segregate during meiosis.

**Male (XY) × Female (XX)**

	<b>X</b>	<b>X</b>
<b>X</b>		
<b>Y</b>		

4. Why is there the chance that half of the zygotes will be 46XX and half will be 46XY? \_\_\_\_\_  
\_\_\_\_\_
5. Is the following sentence true or false? Human chromosomes contain both protein and a single, double-stranded DNA molecule.  
\_\_\_\_\_

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# Chapter 14 The Human Genome Se

**Zhe Xu**



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