

**Analysis:**

1. What is a **Karyotype**? \_\_\_\_\_  
\_\_\_\_\_
2. How are chromosome pairs arranged? \_\_\_\_\_  
\_\_\_\_\_
3. How can genetic disorders be indicated?
  - a. \_\_\_\_\_
  - b. \_\_\_\_\_
4. How many disorders affect the gender (sex) of the insect? Which one(s)? \_\_\_\_\_  
\_\_\_\_\_
5. If you had a **small insect** with **no body segments** and **clear wings**, what disorders may it have? \_\_\_\_\_  
\_\_\_\_\_

**Matching** – Put the letter of the correct answer in the space provided.

- |                      |  |
|----------------------|--|
| _____ 6. Monosomy    | A. Part of a chromosome is missing.  |
| _____ 7. Trisomy     | B. Only one chromosome of a pair of chromosomes is present.                                  |
| _____ 8. Deletion    | C. Repeated sections of a chromosome that cause them to be larger than normal.               |
| _____ 9. Duplication | D. A cell has an extra copy of a chromosome, so there are three chromosomes rather than two. |