

Chromosomes Concept Map and Questions

Read Tiger pages 118-121

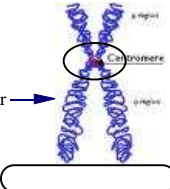
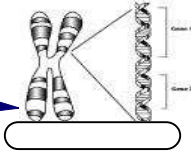
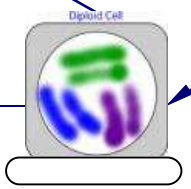
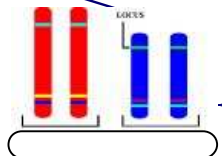
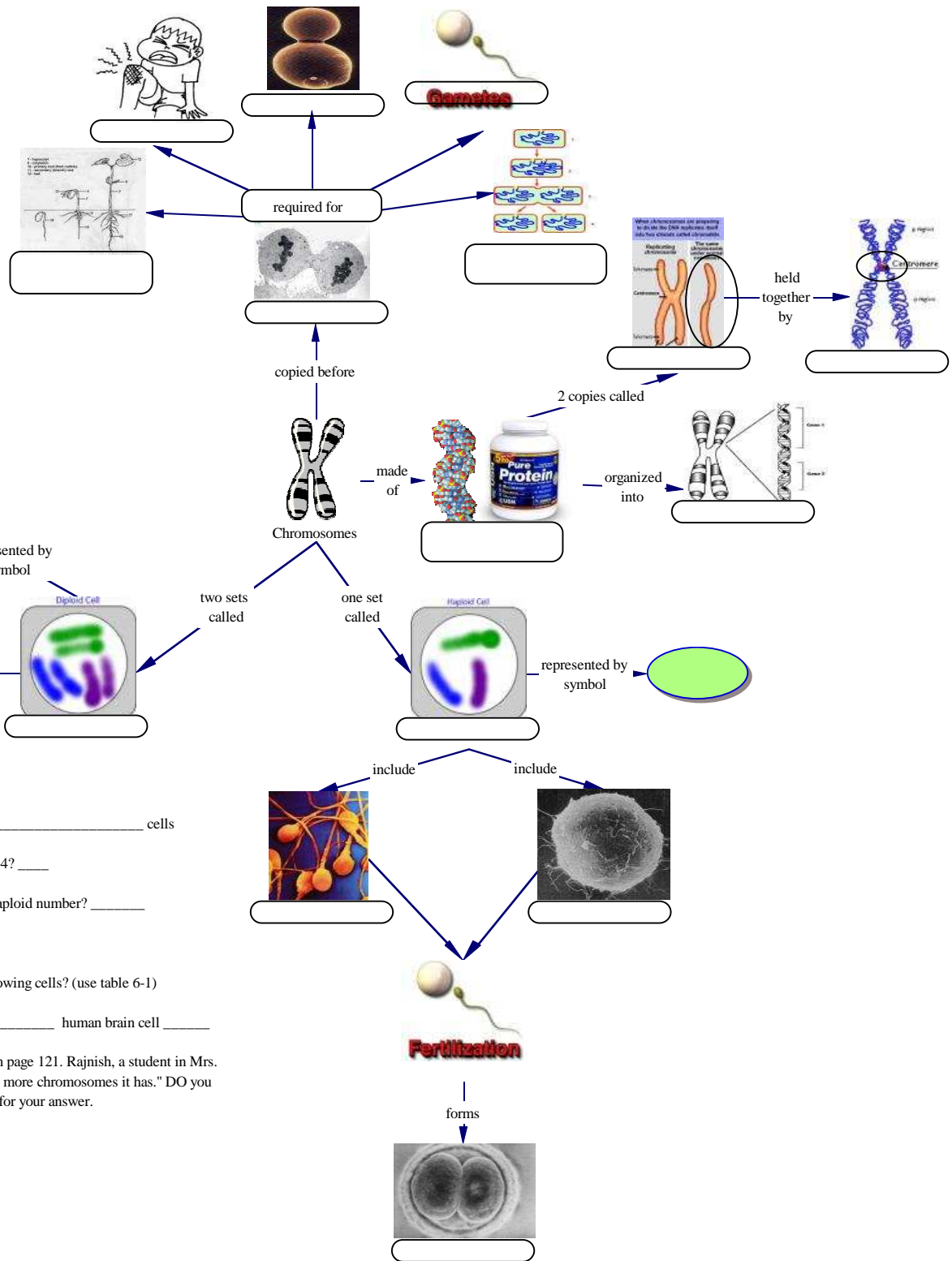
Complete the map with the word list AS YOU READ!

Answer the questions below.

**WORD LIST**

- n
- 2n
- asexual reproduction
- binary fission in bacteria
- cell division
- centromere
- chromatids
- diploid
- DNA & Proteins
- egg
- father
- genes
- growth & development
- haploid
- healing

- homologous chromosomes
- sperm
- zygote



Questions to answer

1. Cells other than gametes are called \_\_\_\_\_ cells
2. How many chromatids are visible in figure 6-4? \_\_\_\_
3. The dog's diploid number is 78. What is its haploid number? \_\_\_\_
4. In humans, 2n = \_\_\_\_\_ and n = \_\_\_\_\_
5. How many chromosomes in each of the following cells? (use table 6-1)  
 frog egg \_\_\_\_\_ dog zygote \_\_\_\_\_ human brain cell \_\_\_\_\_

BONUS EXTRA CREDIT: Study table 6-1 on page 121. Rajnish, a student in Mrs. H's class, said "The smarter an organism is, the more chromosomes it has." DO you agree or disagree with Rajnish? Give a reason for your answer.