

Chapter 11-4, Part II, Meiosis and Genetics
Sexual Cell Reproduction
Page 275-278

Objectives: Students will

- A) Compare haploid and diploid chromosome numbers
- B) Summarize why half of an individual's genetic information comes from each parent
- C) Summarize the steps of meiosis and identify its products
- D) Explain how genetic variation occurs from meiosis

A) Compare haploid and diploid chromosome numbers

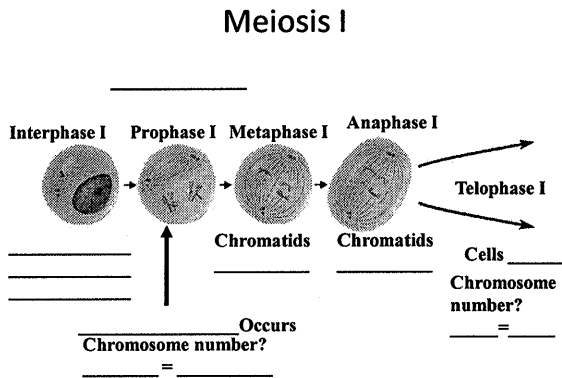
_____ development

- _____ egg or sperm cell = _____ set of chromosome (____, _____)
- Undergoes _____ with _____ cell divisions
- Develops into a _____ egg or sperm (____, _____)

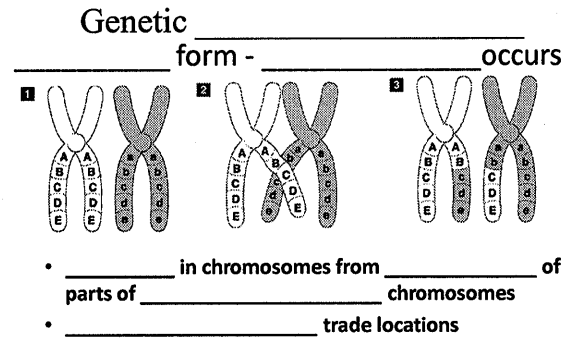
Why do cells divide by Meiosis?

- To reduce chromosome number in sex cells to _____ numbers
- Chromosome _____ = genetic _____
- _____ = _____ or _____ set of chromosomes

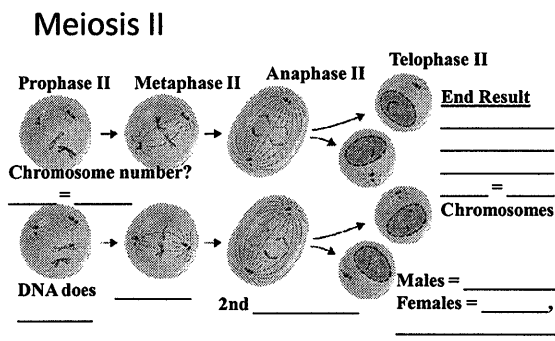
Obj. C) Summarize the steps of meiosis and identify its products



Obj. D) Explain how genetic variation occurs from meiosis

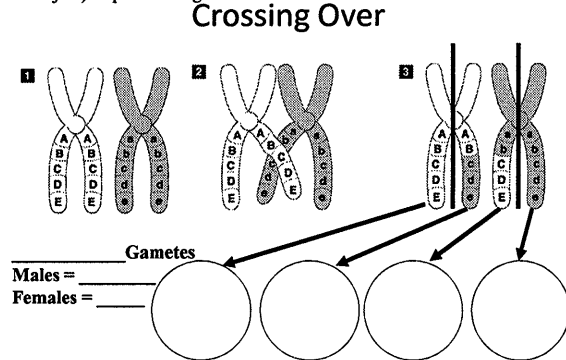


Obj. C) Summarize the steps of meiosis and identify its products



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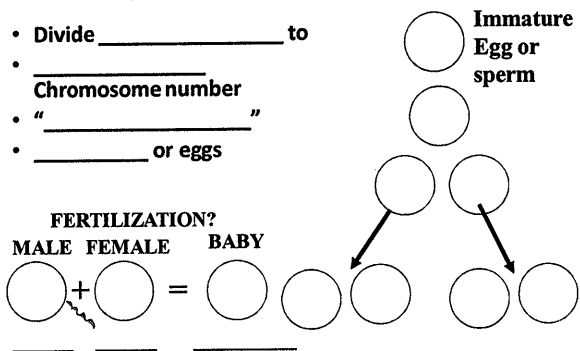
Obj. D) Explain how genetic variation occurs from meiosis



Obj. B) Summarize why half of an individual's genetic information comes from each parent

Meiotic Cells.....

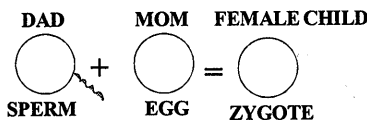
- Divide _____ to _____
- _____ Chromosome number
- " _____ "
- _____ or eggs



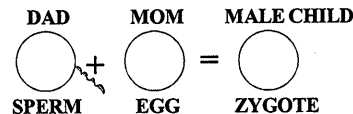
Obj. B) Summarize why half of an individual's genetic information comes from each parent

Meiotic Cells.....

- How does a female child result from fertilization?



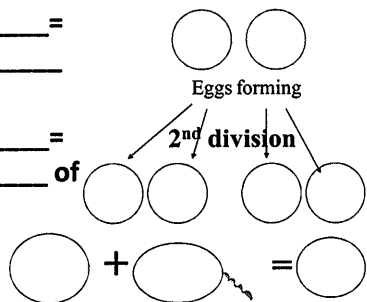
- How does a male child result from fertilization?



Obj. B) Summarize why half of an individual's genetic information comes from each parent

_____ = chromosomes _____
to " _____ " or _____ :

- _____ = zygote with _____ of one type
- _____ = zygote with _____ of one type



Answer the following to receive your Standards Based Worksheet: Exit Ticket

1. What is used to represent haploid and how many chromosomes is this in humans?
2. What is produced from meiosis?
3. What causes genetic variation and occurs during meiosis?
4. Write the mathematical formula for fertilization.