

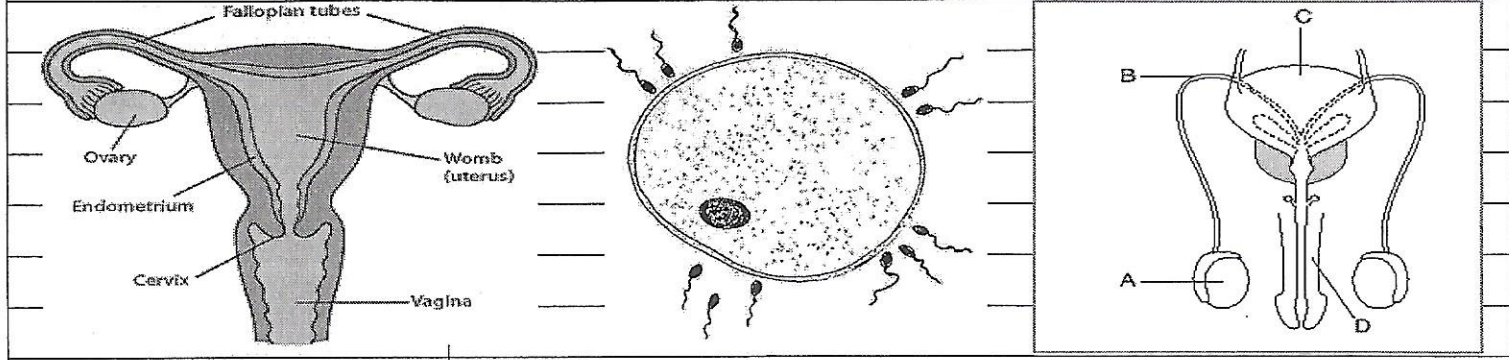
Name: _____ Date: _____

Period: _____ Do Now# 4.5 Homework: 4.5

Aim: How are gametes formed?

Vocabulary: (9)
 1. spermatogenesis 3. meiosis 5. gamete 7. tetrad 9. Crossing over
 2. oogenesis 4. ovum 6. homologous 8. synapsis

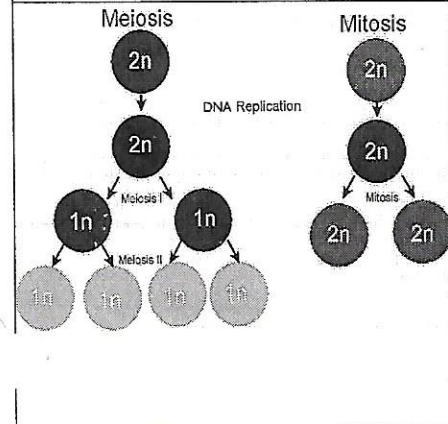
What is a gamete?
 • Also known as sex cells.
 ➤ Male gamete is sperm cell produced by _____
 ➤ Female gamete is egg cell produced by _____



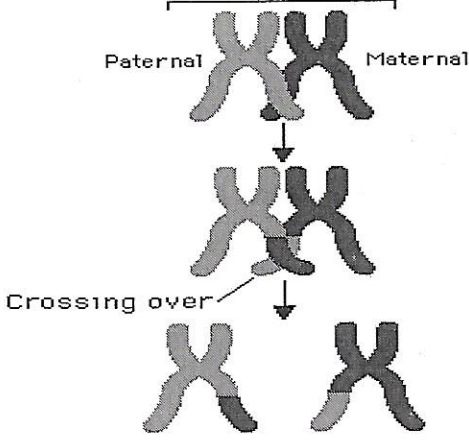
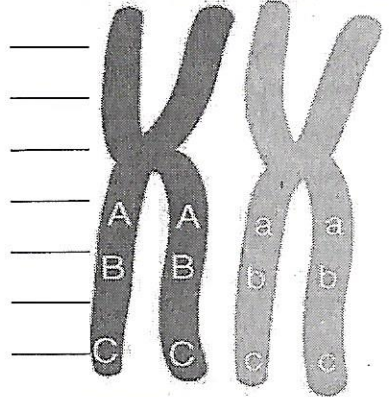
How do we describe gametogenesis?
 a. Production and development of the gametes.
 b. Involves cell division called meiosis.
 c. In males ----- Spermatogenesis
 d. In females ----- Oogenesis

What is spermatogenesis?
 ➤ Formation of sperm cells in the testes.

What is oogenesis?
 ➤ Formation of egg cells in the ovaries.
 ➤ Egg cell is also known as ovum.



-----FACTS ABOUT MEIOSIS-----
 1. Only for sperm cells and egg cells.
 2. Occurs in the ovaries and testes.
 3. Results to 4 daughter cells.
 4. The daughter cells are haploid. (half # of chromosomes)
 5. Haploid daughter cells are called gametes.

<i>Questions/Main Ideas:</i>	Notes:
What are homologous chromosomes ?	a. <u>Identical</u> chromosomes. b. There <u>23</u> pairs in humans. c. Forms a <u>tetrad</u> (4 chromatids)
	During <u>synapsis</u> . (pairing of homologous chromosomes)
	<div style="text-align: center;"> <p>Synapsis: Pairing of homologous chromosomes</p>  </div> <div style="text-align: right; margin-top: 20px;">  <p>Homologous chromosomes</p> </div>
What is crossing over ?	<ul style="list-style-type: none"> ➤ <u>Exchange</u> of chromatid segments. ➤ Exchange of <u>genetic</u> material. (genes in DNA)
	<i>Do you want a homework pass?</i>
	Get a partner, go to the front and show the class CROSSING OVER!
	<i>----Ask the teacher!----</i>
	What is <u>good</u> about crossing over in chromosomes?
	Why is it important for gametes to be haploid?

Summary: 2 points

Meiosis is important

Meiosis is only for

Meiosis happens in the

Crossing over can