

Worksheet Lesson 1: Sex Cells/Gametes

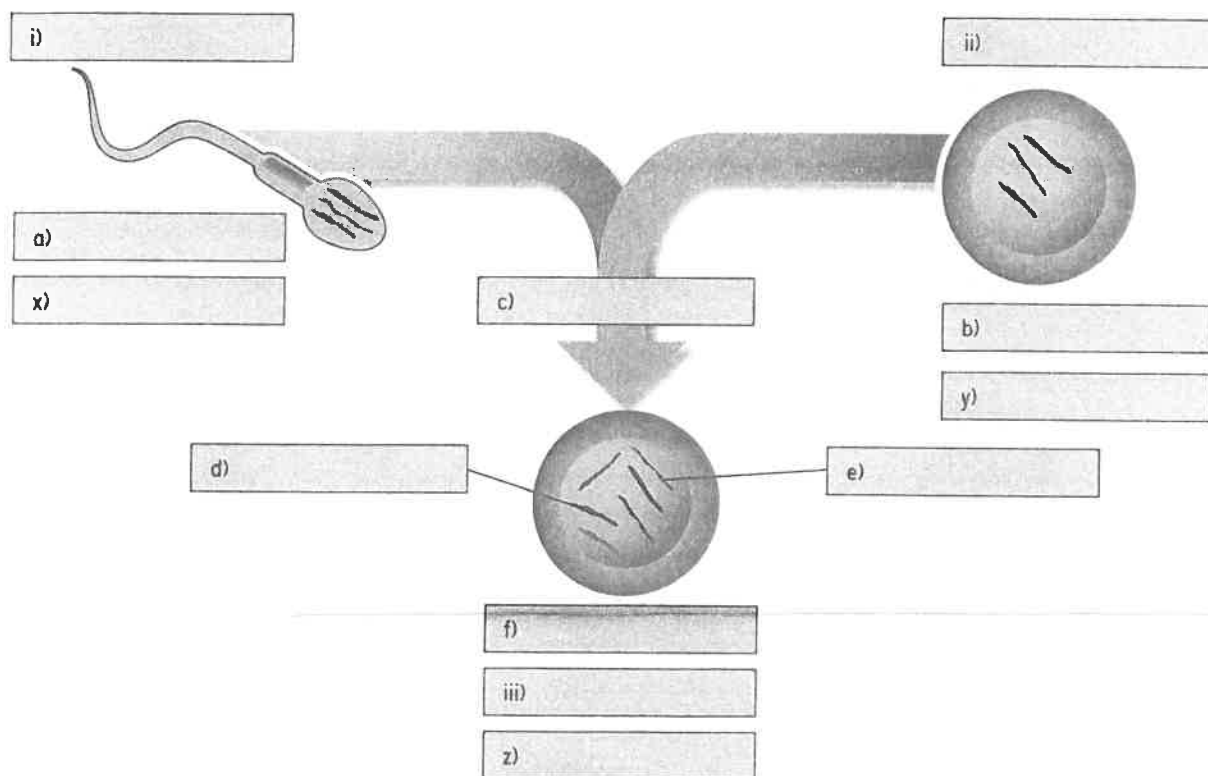
1. What are the two types of gametes? Where is each produced?
2. How does a zygote form?
3. What process occurs immediately after the zygote forms?
4. What process produces each of the following?
 - a. Gametes
 - b. Zygote
 - c. More skin cells
5. What is genetic diversity?
6. Define fertilization.
7. How many chromosomes are contained in the following human cells.
 - a. Sperm _____
 - b. Egg/ovum _____
 - c. Zygote _____

Gametes

Use with textbook pages 46–48.

1. Label the diagram below.

- Use the following terms for parts a) to f): **female chromosome, male chromosome, egg, fertilization, sperm, zygote.**
- Use the following terms for parts i), ii), and iii), **diploid, haploid.**
- Identify the method (mitosis or meiosis) that produces the cell. Label boxes x), y), and z).



2. Determine how many chromosomes are in the gametes and body cells of these organisms.

	Organism	Number of Chromosomes in the Gametes	Number of Chromosomes in the Body Cells
a)	Human, <i>Homo sapiens</i>	23	
b)	Sea otter, <i>Enhydra lutris</i>		38
c)	Spirit bear, <i>Ursus americanus</i>	37	
d)	Chinook salmon, <i>Oncorhynchus tshawytscha</i>		68
e)	Red fox, <i>Vulpes vulpes</i>	17	