Sexual Reproduction Worksheet

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_\_\_

Use the following words to fill in the blanks. Some words might be used more than once.

Haploid

Diploid

Zygote

46

Same

Gametes

23

Half

Sex

Somatic

Mitosis

1. Most human cells contain \_\_\_\_\_\_ chromosomes.

2. Most human cells are considered \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and are said to be diploid.

3. The *sexual* process that divides the nucleus and reduces the number of chromosomes by

half is called Meiosis. Meiosis is sexual reproduction; it produces \_\_\_\_\_\_ cells.

4. These offspring cells are haploid and are all genetically \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. In *sexual reproduction*, the specialized reproductive cells are called \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Are *gametes* haploid or diploid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Human gametes contain \_\_\_\_\_\_ chromosomes each.

8. When two gametes unite, the resulting cell would have \_\_\_\_\_ chromosomes, and would therefore be (*diploid or haploid?*) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. The “union” of two gametes is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

10. The sperm and the ovum both contain \_\_\_\_\_\_\_\_\_ the chromosomes of a normal cell.

11. When they meet, their nuclei fuse together (combine) so that the new cell contains the \_\_\_\_\_\_\_\_\_\_\_\_\_ number of chromosomes as a diploid cell.

12. The new cell that forms when a sperm and ovum unite is called a \_\_\_\_\_\_\_\_\_\_\_\_\_.

13. An embryo will then continue to *grow and develop* into a fetus by \_\_\_\_\_\_\_\_\_\_\_\_\_, a type of cell reproduction.

**Answer the questions completely.**

14. What is meant by haploid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

15. What is meant by diploid? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

16. In humans, the egg is larger than the sperm. Explain how it is possible that a child inherits equally from its mother and father. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**True/False**

17. \_\_\_\_\_\_\_\_\_ Haploid gametes are produced through meiosis.

18. \_\_\_\_\_\_\_\_\_ Genetic variation is decreased through crossing-over.

19. \_\_\_\_\_\_\_\_ Oogenesis produces egg cells.

20. \_\_\_\_\_\_\_\_ Division of cell cytoplasm is called interkinesis.