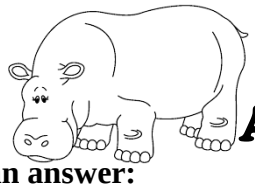
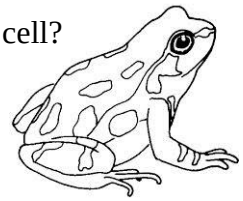


Mitosis/Meiosis Sort: Alternative Assignment

Circle an answer:

1. Mitosis **or** Meiosis: is the process by which a cell makes an exact copy of itself, resulting in two identical cells.
2. Mitosis creates: body cells **or** sex cells.
3. Cells from a tiger are found to have 19 chromosomes. These cells were most likely formed in the process of: mitosis **or** meiosis.
4. A daughter cell that has chromosomes genetically identical to the original cell was most likely produced by: mitosis **or** meiosis.
5. Which cells contain half the chromosomes of the original cell?
   - body cells
   - sperm cells
   - egg cells

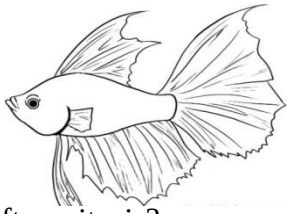


Fill in the blanks:

6. Meiosis is the process by which the number of _____ is reduced by _____.
7. The process of _____ makes new cells so the body can grow.
8. After meiosis, _____ cells in males and _____ cells in females are produced.

Short answer:

9. What is the purpose of meiosis?

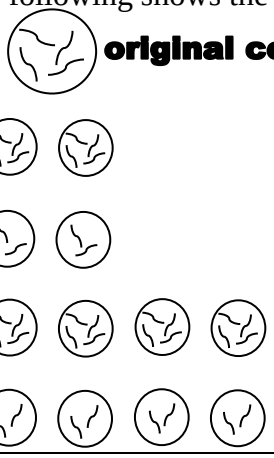


Calculate the number:

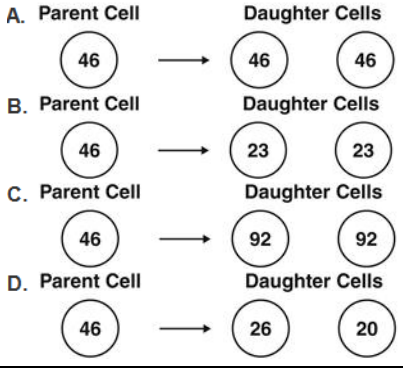
10. A bullfrog has 26 chromosomes. How many daughter cells are produced after mitosis? _____
11. A hippo has 36 chromosomes. After mitosis, how many chromosomes will be in each of the two daughter cells? _____
12. The sperm and egg cell of beta fish each contain 21 chromosomes. After fertilization, this new cell will go through mitosis to grow into a new fish. How many chromosomes will be produced in the mitosis daughter cells? _____

Pick the picture:

13. Which of the following shows the result of meiosis?



14. A human body cell has 46 chromosomes. Which diagram represents mitosis in a human body cell?



15. & 16. Correctly label the description **and** match to the correct picture:

_____Daughter cells that are genetically identical to each other.

_____Daughter cells that are genetically different from each other.