

## Cells and Their Working

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### Choose the correct answer.

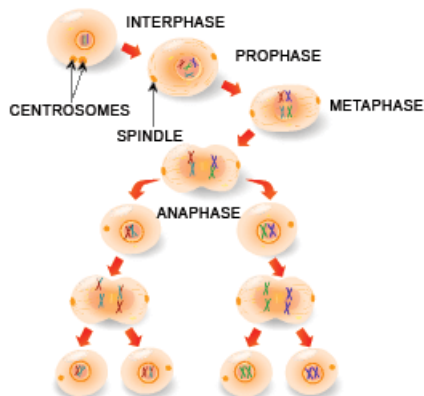
1. Which of the following part of the plant and animal cell provides the cell with energy?

- Vacuole
- Mitochondria

2. Which of the following cell division method occurs when the new cells are not identical to the original cell?

- Mitosis
- Meiosis

3. Which of the following cell division methods is necessary in the sexual reproduction of organisms?



- Mitosis
- Meiosis

4. Hair color, eye color, and the ability to roll your tongue are examples of which of the following?

- Chromosomes
- Traits

5. Which of the following lists dominant traits for humans?

- Dimples, curly hair, freckles, unattached earlobes
- Thin lips, red hair, straight hair, no freckles

6. Robert Hooke was the physicist who first introduced the term cell.

- True
- False

7. Which of the following is the part of the plant and animal cell that stores the food and nutrients the cell needs to survive?

- Vacuole
- Cytoplasm

8. Which of the following is the term used for division of cells?

- Mitosis
- Meiosis
- Both A and B

9. Organisms are born with all of their behavioral traits and physical traits and they cannot be changed.

- True
- False

**State whether the following statement is true or false.**

10. The chromosomes of a cell are made of DNA, and the DNA has genes.



- True
- False

11. A recessive trait appears only if an organism has two dominant factors for the trait.

- True
- False

**Choose the correct answer.**

12. Which of the following tissue protects the body from injury and infection?

- Connective
- Epithelial

13. \_\_\_\_\_ carried out experiments on a pea plant and investigated its different traits.

- Robert Hooke
- Gregor Mendel

14. Which of the following best defines chromosomes?



- Chromosomes are made up of DNA and carry the genetic information used to help an organism's cells grow, live, and reproduce.
- Chromosomes are made up of tissue and carry information in an organism's cells to help them grow, live, and reproduce.

15. Which of the following correctly tells the difference between a dominant trait and a recessive trait?

- A dominant trait is always expressed completely, and a recessive trait cannot be fully expressed unless it is alone.
- A dominant trait cannot be fully expressed unless it is alone, and a recessive trait is always expressed completely.