

SC.912.L.16.1 – Genetics – Example 8 Answer

Mendel hypothesized that reproductive cells have only one factor for each inherited trait. This hypothesis is supported by which observation?

- A. Haploid cells are produced by mitosis.**
- B. Diploid cells are produced by mitosis.**
- C. Haploid cells are produced by meiosis.**
- D. Diploid cells are produced by meiosis.**

Answer

C. Haploid cells are produced by meiosis.

Although each cell in the human body has two copies of each chromosome with one allele for each trait on them, the gametes (egg and sperm) have only one copy of each chromosome with one allele for each trait.