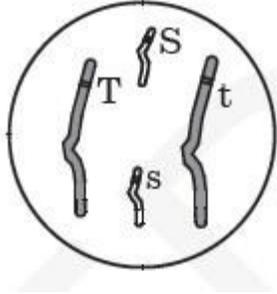


SC.912.L.16.1 – Genetics – Example 6 Answer

This diagram shows a diploid cell with two pairs of homologous chromosomes.



Due to independent assortment, what is the possible genetic make-up of gametes produced by this organism?

- A. SsTt
- B. Ss, Tt
- C. S, s, T, t
- D. ST, St, sT, st

Answer

- D. ST, St, sT, st

Gametes are haploid and contain only half of the number of chromosomes of the parent cells (one of each chromosome type).