

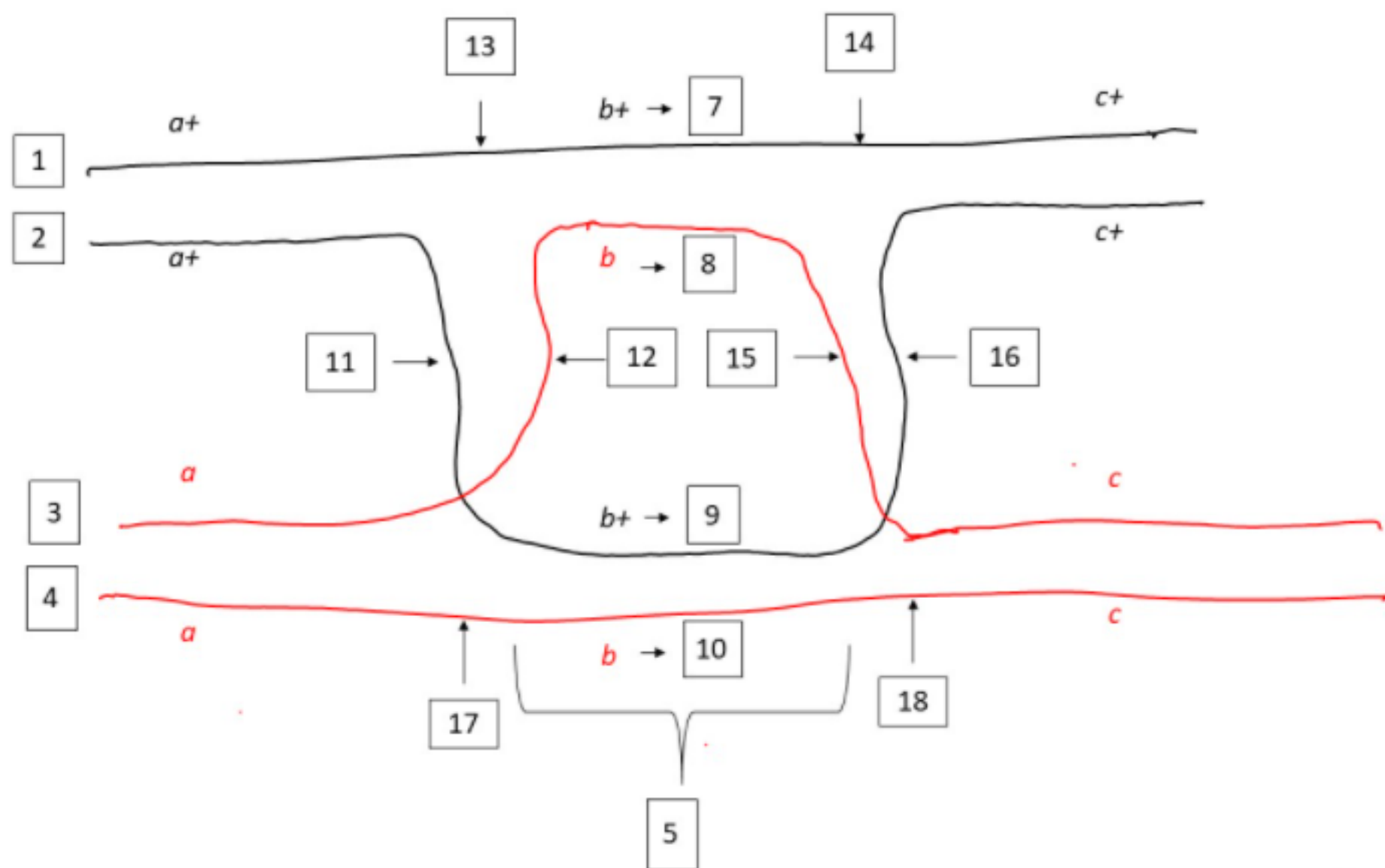


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A cross between two yeast strains with the following genotypes $a^+ b^+ c^+$ x $a b c$ (three linked genes in this order) gave rise to a tetrad ascus containing the following spores: $a^+ b^+ c^+$, $a^+ b c$, $a b c^+$, & $a b c$. The joint molecule that formed between two nonsister chromatids in this region of the chromosome is shown in the diagram below. The numbered boxes in the diagram indicate specific features or events that may or may not have occurred during the formation of the spores. When answering the question, refer to the box numbers to indicate a specific location or feature of the DNA molecules.



A) Indicate the appropriate labels that would replace each of the boxes labeled 1-4 ?



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