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damaged cells are replaced in a wound and a zygote develops into a multicellular organism meiosis is the process by which eggs are formed and the chromosome number of daughter cells is reduced 16 ap biology reading guide fred and theresa holtzclaw chapter 14 mendel and the gene idea 12 13 14 as you start to work word problems in genetics two things are critical the parent s genotype must be correct and the gametes must be formed correctly using figure 14 8 as your guide explain how the gametes are derived for the following cross 1 selection can act only on existing variations 2 evolution is limited by historical constraints 3 adaptations are often compromises 4 chance natural selection and the environment interact study with quizlet and memorize flashcards containing terms like what is microevolution what are the three main mechanisms that can cause changes connections hint for may 3 here s a hint for each of the word groups in today s connections puzzle plus a couple more clues to 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