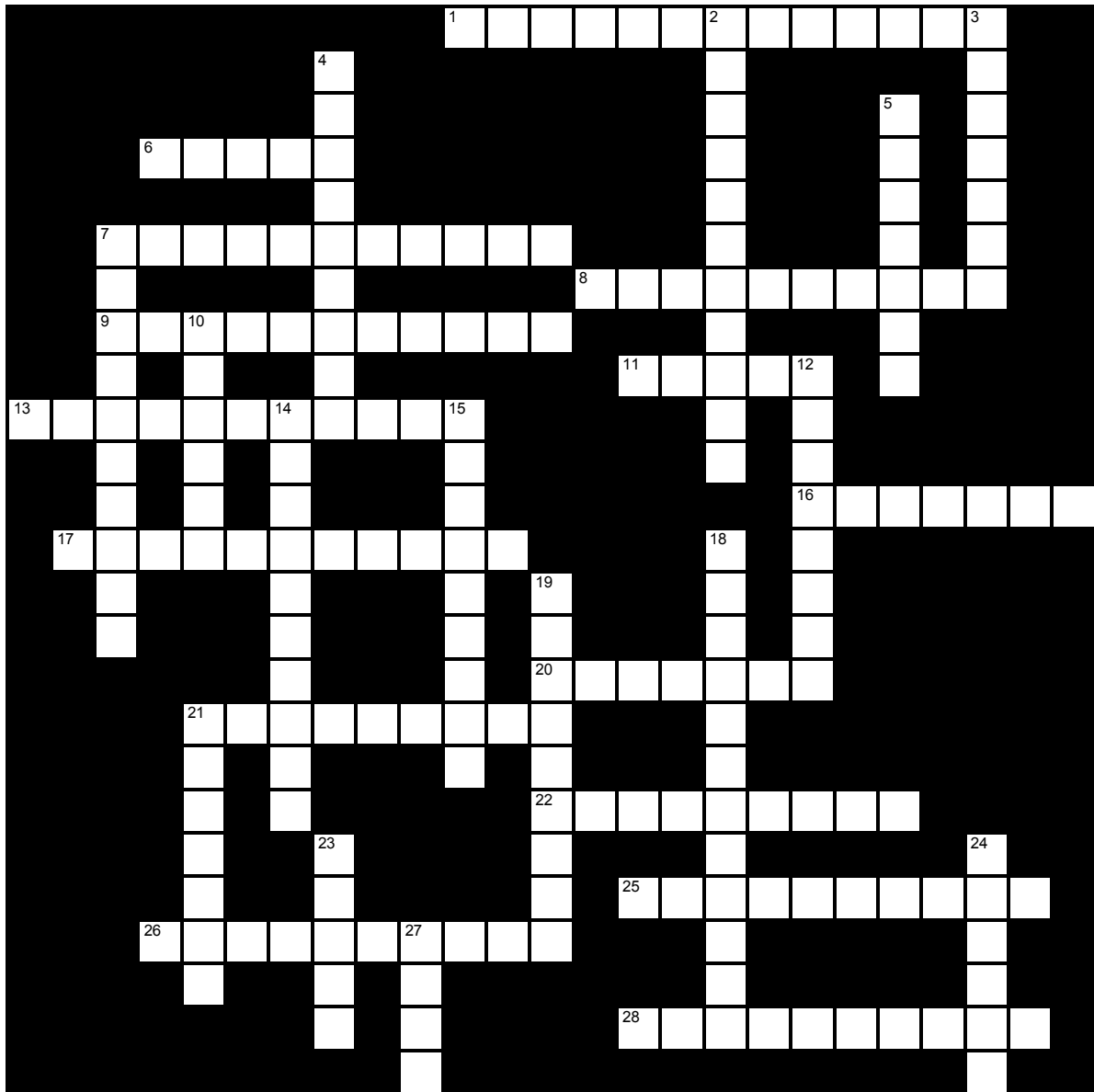


Evolution of Populations

Name: _____

Hour: _____



Across

1 Genetic _____, like crossing over and sexual reproduction increases the number of available genotypes (13)

6 _____ population sizes are often more affected by genetic drift than larger

ones (5)

7 Genes in DNA often undergo _____ where multiple copies of the same gene exists (11)

8 _____ isolation occurs when two closely related species directly choose not

to breed with each other (ie. not mating due to different courting songs) (10)

- 9 _____ selection favors phenotypes in the middle of a trait range (ie. birth weight in humans) (11)
- 11 Genetic _____ occurs when alleles from a smaller population more successfully pass down their alleles than the majority group (5)
- 13 A population that is not evolving because the gene frequency is not changing is said to be in Genetic _____ (11)
- 16 Small, circular sections of DNA code often exchanged between bacteria (7)
- 17 _____ selection favors phenotypes at one end or the other of a trait range (ie. beak size in finches) (11)
- 20 Organism like bacteria can drive _____ gene transfer between each other (7)
- 21 The percentage of any allele in a given population is called the gene _____ (9)
- 22 Changes in the gene frequency over time leads to _____ (9)
- 25 _____ selection is a type of Non-Random mating that occurs in breeding programs (10)
- 26 _____ isolation occurs due to the inability to breed because of a physical barrier (ie. squirrels and the Grand Canyon) (10)
- 28 The longer disruptive selection occurs, the more likely it will lead to _____, or the creation of two new lines (10)
- (9)
- 5 _____ mutations, or "ticks" are changes to DNA that do not affect the overall phenotype (7)
- 7 _____ selection favors the two extremes of a trait range and minimizes the middle, ususally due to a radical change in environment (loss of habit driving beak size to small or large but no middle) (10)
- 10 A trait consists of two of these, either dominate or recessive, inherited from parents (6)
- 12 _____ isolation occurs because species reproduce at different times of the year (ie. rainforest orchids) (8)
- 14 A _____ effect can occur when a natural disaster dramatically reduces a population leading to drift (10)
- 15 Alterations of alleles, or _____, drive changes to the gene pool (9)
- 18 _____ isolation leads to speciation due to breeding choices (12)
- 19 Traits that have wider ranges between them because more than one set of alleles codes for them (ie. height, eye color) (9)
- 21 A _____ effect can occur when species inhabit a new territory where none had existed before (7)
- 23 The _____ - Weinberg Principle states that allele frequency should remain stable unless something else (5 basic tenets) impacts it (5)
- 24 Non-_____ mating occurs when sexual selection is chosen and not allowed to occur openly and competitively (6)
- 27 All of the alleles in a population lead to the creation of the Gene _____ (4)

Down

- 2 Both _____ and emigration can cause disruption, leading to gene flow (11)
- 3 _____ selection directly affects the gene pool through survial of the fittest (7)
- 4 The _____ clock is a model used to illustrate the evolution of DNA over time