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Doc 131 McLaughlin

Population Genetics

Consider the population of four alleles:

Allele	Frequency
AA	0.25
Aa	0.50
aA	0.25
aa	0.00

What do these numbers represent, for which generation?

1. What is the probability of offspring from a population getting a recessive allele?
0.25 + 0.25 = 0.50

2. If you need to represent the frequency of the dominant allele only, how to represent the frequency of the recessive allele, then what will p + q equal?
 $p + q = 1$

3. How can knowledge of alleles to calculate the probability of offspring from the population being half of those genotype. Support your answer with mathematical equations.
(Start begin from our recessive to give dominant gene offspring - 40% or 0.4)
 $0.25 \times 0.25 = 0.0625$ $0.25 \times 0.50 = 0.125$ $0.25 \times 0.50 = 0.125$ $0.25 \times 0.25 = 0.0625$

4. What is the probability of offspring from a population getting a dominant allele (i.e. the allele frequency)? $0.25 + 0.25 = 0.50$

5. What is the probability of offspring from a population getting a dominant allele (i.e. the allele frequency)? $0.25 + 0.25 = 0.50$

6. What is the probability of offspring from a population getting a dominant allele (i.e. the allele frequency)? $0.25 + 0.25 = 0.50$

7. Using what you realize, look forward. In calculating the probability of offspring from a population being half of the following genotypes:
 $0.25 \times 0.25 = 0.0625$ $0.25 \times 0.50 = 0.125$ $0.25 \times 0.50 = 0.125$ $0.25 \times 0.25 = 0.0625$

8. What is $p^2 + 2pq + q^2 = 1$

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