duc - mon

 $aa = (10000)(0.5)^{2}$ 

ee - 250 moths

ma = (1000)(0.25)

#### Population Genetics - Practice Problems

1. Identify each of the variables in the Hardy-Weinberg equation,

$$p + q = 1$$

$$p^2 + 2pq + q^2 = 1$$

p = frequency of the dominant allele (A)

g = frequency of the recessive allele (a)

pt - frequency of homovygous dominant genotypes in a population (AA)

2pq - frequency of beterozygous genotypes in a population (Aa):

q2 = frequency of homozygous recessive genotypes (and phenotypes) in a population (aa).

- What are the five assumptions of the Hardy-Weinberg Equilibrium model?
  - L. Random mating
  - 2. No mustations
  - Large population size.
  - 4. No migration
  - 5. No natural selection
- 3. Natural populations do not usually fit the Hardy-Weinberg Equilibrium model. What does this tell us about most natural populations?

Most natural populations are experiencing changes in the gene pool over time; they are evolving. At least one of the five assumptions of Hardy-Weinberg Equilibrium is not being met and the populations are not mating randomly, have mutations, have small population sizes, are migrating and/or are under selective pressure.

- 4. In a population of peppered moths, 25% of the population shows the recessive phenotype of white.
  - a) Which of the variables does 25% represent?

$$q^2 = 25\% = 0.25$$

b) Given this information, what is the frequency of recessive alleles in the population (q)?

$$q = \sqrt{q^3}$$

$$q = \sqrt{0.25}$$

$$q = 0.5$$

O What is the value of p? How do you know?

$$p + q = 1$$
  
 $p = 1 - q$   
 $p = 1 - 0.5$   
 $p = 0.5$ 

d) If this population had 1000 moths. How many moths would be Homozygous dominant? Heterozygous? Homozygous recessive?

$$AA = np^{2}$$
, where  $n = \text{population}$   
size  
 $AA = (1000)(0.5)^{2}$   
 $AA = (1000)(0.25)$   
 $AA = 250 \text{ moths}$ 

$$Aa = 82pq$$
 $Aa = (1000)[2(0.5)(0.5)]$ 
 $Aa = (1000)(0.5)$ 
 $Aa = 500 moths$ 

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**M Woodhall** 

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