

REVIEW QUESTIONS (For class notes 10 to 13)

PART A: Please solve the following Hardy-Weinberg equilibrium problems.

To calculate *allelic frequencies*, use: $p + q = 1$

To calculate *genotypic frequencies*, use: $p^2 + 2pq + q^2 = 1$

1. The frequency of two alleles in a gene pool is 0.19 (A) and 0.81 (a). Assume that the population is in Hardy-Weinberg equilibrium.

a) Calculate the percentage of heterozygous individuals in the population.

According to the Hardy-Weinberg Equilibrium equation, heterozygotes are represented by the $2pq$ term.

Therefore, the number of heterozygous individuals (Aa) is equal to $2pq$ which equals

$$2 \times 0.19 \times 0.81 = 0.31 \text{ or } 31\%$$

b) Calculate the percentage of homozygous recessives in the population.

The homozygous recessive individuals (aa) are represented by the q^2 term in the H-W equilibrium equation which equals $0.81 \cdot 0.81 = 0.66$ or 66%.

2. An allele W , for white wool, is dominant over allele w , for black wool. In a sample of 900 sheep, 891 are white and 9 are black. Calculate the allelic frequencies within this population, assuming that the population is in H-W equilibrium. (Hints: first determine the percentage of black sheep in this sample. You will need to use both equations to solve this question.)

The allelic frequency of w is represented by the q term and the allelic frequency W is represented by the p term. To calculate the value of q , realize that qq or q^2 represents the homozygous recessive individuals or the black sheep in this case.

Since there are 9 black sheep, the frequency of black sheep

$$= \frac{\text{\# individuals}}{\text{total individuals}} = \frac{9}{900} = 0.01$$

$$\text{thus } ww = q^2 = 0.01$$

$$\text{therefore, } q = \sqrt{q^2} = \sqrt{0.01} = 0.1$$

$$\text{Additionally, } p + q = 1 \text{ thus } p = 1 - q \text{ or } p = 1 - 0.1 \text{ or } 0.9$$

$$\text{therefore, } p = W = 0.9 \text{ and } q = w = 0.1$$

Review Questions Answer Key

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