

Name: KEY Date: _____ Period: _____

Hardy-Weinberg Practice Problems

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

Problem 1: 1 in 1700 US Caucasian newborns have cystic fibrosis. C for normal is dominant over c for cystic fibrosis.

1. When counting the phenotypes in a population why is cc the most significant? When counting, CC and Cc are phenotypically the same, so out of the 1700 you cannot determine how many are CC or Cc.
2. What is the frequency of cystic fibrosis in the above population (cc or q^2)? $q^2 = 1/1700 = 0.00059$

ALLELE FREQUENCY CALCULATIONS:

3. Why calculate "q" first? It can easily be calculated since q^2 is known.
 $q = \sqrt{0.00059} = 0.02425$ (frequency of c allele)
4. Why is it now easy to find "p"? Now that q is known, use the equation $p + q = 1$ to find p.
 $p = 1 - q = 1 - 0.02425 = 0.97575$ (frequency of C allele).

Now that you know p and q, the following genotypes can be found.

GENOTYPE FREQUENCY CALCULATIONS:

5. CC- Normal homozygous dominant = $p^2 = (0.97575)^2 = 0.95209$
6. Cc -carriers of cystic fibrosis = $2pq = 2(0.97575 \times 0.02425) = 0.04732$
7. How many of the 1700 of the population are homozygous dominant (Normal)?
 $0.95209 \times 1700 = 1618.6$
8. How many of the 1700 in the population are heterozygous (carriers)? $0.04732 \times 1700 = 80.4$
9. It has been found that a carrier is better able to survive diseases with severe diarrhea. What would happen to the frequency of the "c" if there was an epidemic of cholera or other type of diarrhea producing disease? The frequency of "c" would increase

Problem 2: If 9% of an African population is born with a severe form of sickle-cell anemia (ss), what percentage of the population will be more resistant to malaria because they are heterozygous (Ss) for the sickle-cell gene?

$$ss = q^2 = 0.09 \qquad q = \sqrt{0.09} = 0.3 \qquad p = 1 - q \qquad p = 1 - 0.3 = 0.7$$

Hardy Har Har Biology Worksheet Answers

AW Rasmussen



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