

# Download File PDF Hardy Weinberg Equation Pogil Answers

#Jenny



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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?  
 $0.25 + 0.25 = 0.50$

3. How can knowledge of alleles to calculate the probability of offspring from the population being null of these genotypes. Support your answer with mathematical equations.  
(Start by listing the alleles in a grid format and offspring - AA or aa)  
 $0.25 \times 0.25 = 0.0625$      $0.25 \times 0.25 = 0.0625$      $0.25 \times 0.25 = 0.0625$      $0.25 \times 0.25 = 0.0625$

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

5. Using what you realize, look forward. In calculating the probability of an offspring from a population being null of the following genotypes:  
 $0.25 \times 0.25$      $0.25 \times 0.25$      $0.25 \times 0.25$

6. What  $p^2 + 2pq + q^2 = 1$

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