Answers:

1. View the Dragons below.  The winged trait is dominant.

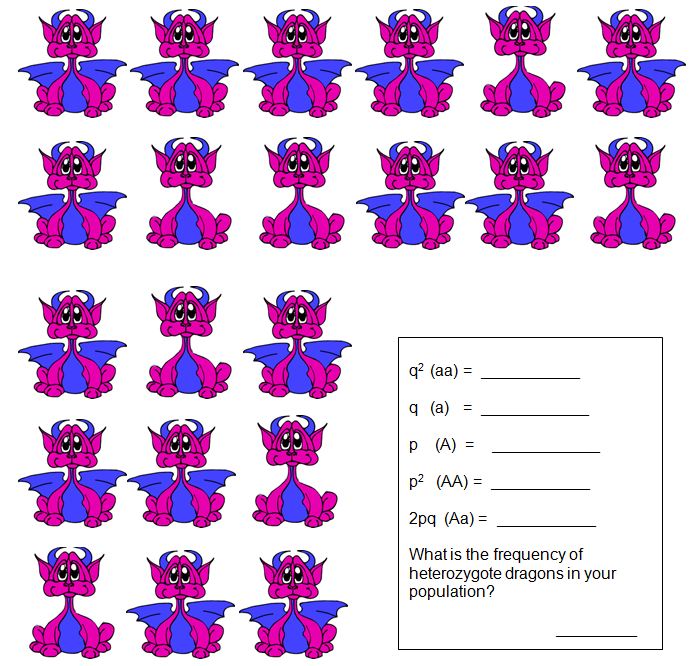
7 of 21 are aa = q2 = .33  
q = .58  
p = .42  
p2 = .18  
2pq = .49--> number of heterozygotes

1. You have sampled a population in which you know that the percentage of the homozygous recessive genotype (aa) is 36%. Using that 36%, calculate the following:   
   A. The frequency of the "aa" genotype. .36  
   B. The frequency of the "a" allele. .6  
   C. The frequency of the "A" allele. .4  
   D. The frequencies of the genotypes "AA" and "Aa." .16 and .48  
   E. The frequencies of the two possible phenotypes if "A" is completely dominant over "a." .36 will show recessive trait, .64 will show the dominant trait

# Hardy Weinberg Problem Set

p2 + 2pq + q2 = 1 and p + q = 1   
p = frequency of the dominant allele in the population  
q = frequency of the recessive allele in the population  
p2 = percentage of homozygous dominant individuals  
q2 = percentage of homozygous recessive individuals  
2pq = percentage of heterozygous individuals

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   B. The frequency of the "a" allele.   
   C. The frequency of the "A" allele.   
   D. The frequencies of the genotypes "AA" and "Aa."   
   E. The frequencies of the two possible phenotypes if "A" is completely dominant over "a." \_\_\_\_\_\_\_\_\_\_\_\_will show recessive trait, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will show the dominant trait