

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

$$p + q = 1$$

Name: _____

Interpretation of Images, Data/Graphs Assignment: Evolutionary Biology

Study the diagrams, graphs, data sets, etc... that are shown below and then answer the questions that follow (with detail when necessary AND IN COMPLETE SENTENCES!!).

1. You sample 1,000 individuals from a large population for the MN blood group, which can easily be measured since co-dominance is involved (i.e., you can detect the heterozygotes). They are typed accordingly:

BLOOD TYPE	GENOTYPE	NUMBER OF INDIVIDUALS	RESULTING FREQUENCY
M	MM p^2	490	$= .49 = 49\%$
MN	MN $2pq$	420	$= .42 = 42\%$
N	NN q^2	90	$= .09 = 9\%$

1000 total

Using the data provide above, calculate the following:

- Label each of the genotype with the appropriate variable (p^2 , $2pq$, q^2)
- Determine the "resulting frequency" of each genotype in the population. SHOW YOUR WORK!!

490/1000 420/1000 90/1000

- Determine the frequency of each allele in the population. SHOW YOUR WORK!!

check:

$90 \text{ NN} = 180 \text{ N}$
 $420 \text{ MN} = \frac{840 \text{ N}}{2} = 420 \text{ N}$
 $\frac{180 + 420}{600} = .7$

$490 \text{ MM} = 980 \text{ M}$
 $420 \text{ MN} = \frac{420 \text{ M}}{2} = 210 \text{ M}$
 $\frac{980 + 210}{1190} = .84$

$N = \frac{600}{2000} = .3$
 $M = \frac{1190}{2000} = .595$

$q^2 = .09 \therefore q = .3$
 $p = .7$

2. Phylogeny is the evolutionary history of a species.

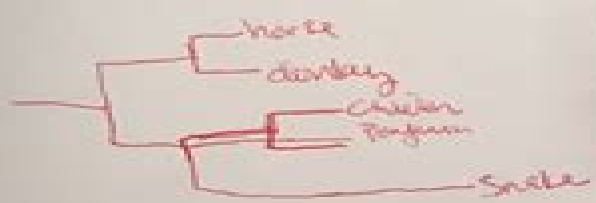
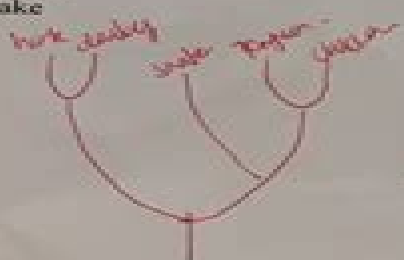
- Based on the data in the table below, draw a phylogenetic tree that reflects the evolutionary relationships of the organisms based on the differences in their cytochrome c amino-acid sequences.
- Explain the relationships of the organisms.
- Based on the data, identify which organism is most closely related to the chicken and explain your choice.

THE NUMBER OF AMINO ACID DIFFERENCES IN CYTOCHROME c AMONG VARIOUS ORGANISMS

Horse
Donkey
Chicken
Penguin
Snake

	Horse	Donkey	Chicken	Penguin
Horse	0	1	11	13
Donkey		0	10	12
Chicken			0	3
Penguin				0

most similar - least # of amino acid differences



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