

- c. As the proband is heterozygous for the deformity allele, the chance that the child inherited it is  $1/2$ . If the child is also a heterozygote, the likelihood that he or she would express the defect is  $\sim 83\%$ . Thus, the chance that the child would be affected by the deformity is  $1/2 \times 83\% \approx 42\%$ .
- d. Four people in the pedigree diagram (III-1, III-2, III-4, and III-7) might have the mutant allele (because their parents had the mutant allele), but no information in the pedigree allows us to know one way or the other. If any of them do have the mutant allele, then the penetrance is lower than  $83\%$ . For example, if we somehow determined that all of those four people had the mutant allele, then the penetrance would be  $5/10 = 50\%$ , and the answer to part (c) would be  $1/2 \times 50\% = 25\%$ . This would be the lowest possible likelihood consistent with the data given.
46. a. The genotypic ratio would be 9 purple ( $A- B-$ ) : 7 white ( $A- bb$ ,  $aa B-$ ,  $aa bb$ ).
- b. If the penetrance of the purple phenotype in  $A- B-$  plants is  $75\%$ , then  $25\%$  of the ( $A- B-$ ) progeny would be white, and only  $75\%$  of them would be purple. This means that the purple plants in the  $9/16$  class would be  $9/16 \times 3/4 = 27/64$  of the total progeny. All the remaining  $F_2$  progeny [ $(64/64) - (27/64) = 37/64$ ] will be white. Therefore, the genotypic ratio would be 27 purple : 37 white.
- c. If you crossed two different pure-breeding white strains, and some but not all the  $F_1$  were purple, one possible explanation is incomplete penetrance of the purple phenotype. In addition, you would never be able to make a pure-breeding purple strain, because even in an  $A- B-$  strain, in every generation, not all the plants will be purple.
47. a. Two different phenotypes are mentioned in this problem. One phenotype is the shape of the erythrocytes. All people with the genotype  $SPH^+ SPH^+$  have spherical erythrocytes. Therefore, this phenotype is fully penetrant and shows no variation in expression. The second phenotype is anemia. The expressivity among anemic patients varies from severe to mild. In fact, some people with the  $SPH^+ SPH^+$  genotype (150/2400) have no symptoms of anemia at all. Thus, the penetrance of the anemic phenotype is  $2250/2400$  or  $0.94$ .
- b. The severity of the anemia is greatly reduced when the spleen functions poorly and does not recognize the spherical erythrocytes as defective cells that must be eliminated from the bloodstream. Therefore, treatment might involve removing the spleen (an organ which is not essential to survival). The more efficiently the spleen functions the earlier in a patient's life it should be removed. Note that  $SPH^+ SPH^+$  with no symptoms of anemia should not be subjected to this drastic treatment.
48. a. The most likely mode of inheritance is a single gene with incomplete dominance such that  $F^NF^N$  = normal ( $<250$  mg/dl),  $F^NF^a$  = intermediate levels of serum cholesterol ( $250$ - $500$  mg/dl) and  $F^aF^a$  homozygotes = elevated levels ( $>500$

# Hartwell Solutions Manual

**Christian G. Meyer**



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