

Genetics Part II Practice

Discussion Questions:

1. Who was Gregor Mendel?
2. What are alleles? Give 2 examples of alleles in pea plants?
3. How are dominant and recessive traits different?
4. Mendel studied 7 different traits in pea plants. What are the dominant forms of the traits?
5. How are homozygous individuals different from heterozygous individuals?

Dominant/Recessive Practice:

6. What is the dominant trait for flower position?
7. What is the recessive trait for flower color?
8. What is the dominant trait for seed shape?
9. What is the recessive trait for seed color?
10. What is the dominant trait for pod shape?
11. What is the recessive trait for pod color?
12. What is the dominant trait for height?

Homozygous/Heterozygous Practice:

13. What letters would represent a Homozygous Dominant organism for flower position?
14. What letters would represent a Homozygous Recessive organism for flower position?
15. What letters would represent a Homozygous Dominant organism for flower color?
16. What letters would represent a Homozygous Recessive organism for flower color?
17. What letters would represent a Homozygous Dominant organism for seed shape?
18. What letters would represent a Homozygous Recessive organism for seed shape?
19. What letters would represent a Homozygous Dominant organism for pod shape?
20. What letters would represent a Homozygous Recessive organism for pod shape?
21. What letters would represent a Homozygous Dominant organism for plant height?
22. What letters would represent a Homozygous Recessive organism for plant height?
23. What letters would represent a Heterozygous organism for flower position?
24. What letters would represent a Heterozygous organism for flower color?
25. What letters would represent a Heterozygous organism for seed shape?
26. What letters would represent a Heterozygous organism for seed color?
27. What letters would represent a Heterozygous organism for pod color?
28. What letters would represent a Heterozygous organism for plant height?