

Name _____ Date _____

7 _____ Life Science

Dominant & Recessive 7B-1



Teacher:
Miss Stanley



(1-16) Show a cross between an inflated pea pod (II) and a constricted pea pod.

- _____ 1. In the F₁ how many are inflated?
- _____ 2. In the F₁ how many are constricted?

In the F₁ give the number of pea plants with the following genotypes:

- _____ 3. II
- _____ 4. Ii
- _____ 5. ii

In the F₂ give the number of pea plants with the following genotypes:

- _____ 6. II
- _____ 7. Ii
- _____ 8. ii

- _____ 9. In the F₂ how many are inflated?
- _____ 10. In the F₂ how many are constricted?
- _____ 11. How many purebred offspring are in the F₁?
- _____ 12. How many purebred offspring are in the F₂?
- _____ 13. Which parent was purebred dominant?
- _____ 14. Which parent was purebred recessive?
- _____ 15. Name the dominant trait.
- _____ 16. Name the recessive trait.

(17-34) If a hybrid man with arches in his feet marries a lady with flat feet, show the F_1 and F_2 .
(Use the letter F.)

_____ 17. In the F_1 how many are purebred recessive?

_____ 18. In the F_1 how many are purebred dominant?

_____ 19. In the F_1 how many are hybrid?

_____ 20. In the F_2 how many are purebred recessive?

_____ 21. In the F_2 how many are purebred dominant?

_____ 22. In the F_2 how many are hybrid?

_____ 23. What is the genotype of a person with flat feet?

_____ 24. What is the genotype of a person with arches in his feet?

Give the phenotypic ratios for the F_1 .

_____ 25. arches

_____ 26. flat

Give the genotypic ratios for the F_1 .

_____ 27. FF

_____ 28. Ff

_____ 29. ff

Give the phenotypic ratios for the F_2 .

_____ 30. arches

_____ 31. flat

Give the genotypic ratios for the F_2 .

_____ 32. FF

_____ 33. Ff

_____ 34. ff