

Name _____ Class _____ Date _____

C5L2 Dominant & Recessive Practice 1

(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 probability of pea plants with the following genotypes:

_____ 3. II

_____ 4. Ii

_____ 5. ii

In the F₂ give the percent 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 (son who has flat feet marries a wife who is purebred for feet with arches). (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 ratios for the F_1 .

_____25. arches

_____26. flat

Give the ratios for the F_1 .

_____27. FF

_____28. Ff

_____29. ff

Give the ratios for the F_2 .

_____30. arches

_____31. flat

Give the ratios for the F_2 .

_____32. FF

_____33. Ff

_____34. ff