Name: _____ Period: _____ Date:_____

Genetics Review Packet

Direction: In the space provided, write the letter of the description that best matches the term or phrase.

___c___ 1. Heredity   a. genotype to use in a testcross to determine the

___g___ 2. Genetics   genotype of an organism who might be Ww or WW

___p___ 3. Monohybrid cross   b. not expressed when the dominant allele is present

___q___ 4. Alleles   c. passing of traits from parents to offspring

___n___ 5. Dominant   d. used to figure out the 2nd allele for a dominant genotype

___b___ 6. Recessive   e. a cross that considers two pairs of traits

___i___ 7. Homozygous   f. when both alleles influence the phenotype

___m___ 8. Heterozygous   g. branch of biology that studies heredity

___j___ 9. Genotype   h. traits that are controlled by three or more alleles

___r___ 10.Phenotype   i. the alleles of a particular gene are the same

___a___ 11.Homozygous Recessive   j. set of alleles that an individual has

___d___ 12.Testcross   k. diagram that predicts the outcomes of a genetic cross

_____ 13.100% Ww   l. offspring of a cross between homozygous dominant and

                                  a homozygous recessive

___k___ 14.Punnett Square   m. the alleles of a particular gene are different

                              n. the expressed form of the trait

___e___ 15. Dihybrid cross   o. when neither of the two alleles for the same gene totally masks the

                                  presence of the other, so both will be expressed

___h___ 16. Multiple Alleles p. a cross that considers just one pair of traits

___o___ 17. Codominance   q. different versions of a gene

___f___ 18. Incomplete Dominance   r. physical appearance of a trait

Directions: Show all Punnett Squares and write answers using complete sentences.

Single-Trait Crosses: monohybrid   S, s

1. In certain plants, smooth seeds are dominant over wrinkled seeds. If a heterozygous smooth seed plant is crossed with a wrinkled seed plant, what percent of offspring will have smooth seeds?

S   s

s | Ss | ss | 50% smooth

s | Ss | ss | 50% wrinkled