**HEREDITY REVIEW**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Period\_\_\_\_\_\_\_\_\_

**Section 1 - Write the definition of the following terms.**

1. Genotype –
2. Phenotype –
3. Gene -
4. Allele –
5. Homozygous Dominant –
6. Homozygous Recessive –
7. Heterozygous Dominant –

**Section 2 – Circle the correct answers.**

1. Circle all of the phenotypes.

Brown Hair Blue Eyes BB Bb Dimple DD Dd

TT Rr No Dimples Widow’s Peak SS ss Tongue Roller

1. Circle all of the genotypes that are Homozygous Dominant.

TT Tt tt RR Rr rr SS ss Ss ww WW Ww

Aa aa AA BB bb Bb cc CC Cc XX xx Xx

1. Circle all of the genotypes that are Homozygous Recessive.

TT Tt tt RR Rr rr SS ss Ss ww WW Ww

Aa aa AA BB bb Bb cc CC Cc XX xx Xx

1. Circle all of the genotypes that are Heterozygous Dominant.

TT Tt tt RR Rr rr SS ss Ss ww WW Ww

Aa aa AA BB bb Bb cc CC Cc XX xx Xx

**Section 3 – Read the scenario. Write down the offspring’s phenotype.**

1. A widow’s peak is dominant to the absence of a widow’s peak. Pattern of inheritance is Complete Dominance.

WW\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Ww\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ww\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Long eyelashes is dominant to short eyelashes. Pattern of inheritance is Complete Dominance.

EE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ee\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ee\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Thick lips is dominant to thin lips. Pattern of inheritance is Complete Dominance.

TT\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Tt\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_tt\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Nose size is an example of Incomplete Dominance. Dominant Allele is for a large nose.

Recessive allele is for a small nose. What type of nose size would a heterozygous genotype have?

1. Hair texture is an example of Incomplete Dominance. Dominant Allele for hair texture is curly. Recessive allele is for straight hair. What type of hair texture would a heterozygous genotype have?