

## Alien Genetics Practice Problems



1. For each genotype (2 letter code) below, indicate whether it is heterozygous (He) or homozygous (Ho) **Vocabulary** Mm \_\_\_\_\_ AA \_\_\_\_\_ li \_\_\_\_\_ Heterozygous: two Tt \_\_\_\_\_ Bb \_\_\_\_\_ Cc \_\_\_\_\_ different alleles Jj \_\_\_\_\_ QQ \_\_\_\_\_ 00 \_\_\_\_\_ Homozygous: two same alleles DD \_\_\_ Ll Pp \_\_\_\_\_ **Dominant**: The allele 2. For each of the genotypes (code) below write the phenotypes (what we always expressed, represented by a capital letter Pink skin is dominant to green skin. No horns are dominant to horns **Recessive:** the allele only expressed when it is pair with itself, NN \_\_\_\_\_ represented by a small letter. Pp \_\_\_\_\_ Nn \_\_\_\_\_ **Genotype**: two allele рр \_\_\_\_\_ nn \_\_\_\_\_ code for a characteristic, written Head set eyes are dominant to stalks Tails in aliens are recessive. using two letters. Phenotype: the HH \_\_\_\_\_ physical expression of the genotype, what Tt \_\_\_\_\_ Hh \_\_\_\_\_ we see hh \_\_\_\_\_ tt \_\_\_\_\_ 3. For each phenotype (what we see) below, write the genotypes (code) (remember to use the letter of the dominant trait) Antennas are dominant to no antennas Blue skin is dominant to orange skin \_\_\_\_\_ blue \_\_\_\_\_ blue \_\_\_\_\_ antenna \_\_\_\_\_ antenna

\_\_\_\_\_ orange



no antenna

