

Name \_\_\_\_\_

## Genetics Practice Problems—Intro

1. For each genotype below, indicate whether it is heterozygous (**He**) or homozygous (**Ho**).

AA \_\_\_\_\_

Ee \_\_\_\_\_

li \_\_\_\_\_

Mm \_\_\_\_\_

Bb \_\_\_\_\_

ff \_\_\_\_\_

Jj \_\_\_\_\_

nn \_\_\_\_\_

Cc \_\_\_\_\_

Gg \_\_\_\_\_

kk \_\_\_\_\_

oo \_\_\_\_\_

DD \_\_\_\_\_

HH \_\_\_\_\_

LL \_\_\_\_\_

Pp \_\_\_\_\_

2. For each of the **genotypes** below determine what **phenotypes** would be possible.

*Purple flowers are dominant to white flowers*

*Brown eyes are dominant to blue eyes*

PP \_\_\_\_\_

Pp \_\_\_\_\_

pp \_\_\_\_\_

BB \_\_\_\_\_

Bb \_\_\_\_\_

bb \_\_\_\_\_

*Round seeds are dominant to wrinkled seeds.*

*Bobtails in cats are recessive*

RR \_\_\_\_\_

Rr \_\_\_\_\_

Rr \_\_\_\_\_

TT \_\_\_\_\_

Tt \_\_\_\_\_

tt \_\_\_\_\_

3. For each **phenotype** below, list the **genotypes** (remember to use the letter of the dominant trait).

*Straight hair is dominant to curly.*

*Pointed heads are dominant to round heads.*

\_\_\_\_\_ Straight

\_\_\_\_\_ straight

\_\_\_\_\_ curly

\_\_\_\_\_ pointed

\_\_\_\_\_ pointed

\_\_\_\_\_ round

*Green seeds are dominant to yellow seeds.*

*Left handedness is recessive in humans.*

\_\_\_\_\_ yellow

\_\_\_\_\_ green

\_\_\_\_\_ green

\_\_\_\_\_ left handedness

\_\_\_\_\_ right handedness

\_\_\_\_\_ right handedness