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

AA \_\_\_\_\_\_\_

Bb\_\_\_\_\_\_\_

Cc\_\_\_\_\_\_\_

DD\_\_\_\_\_\_\_

Ee\_\_\_\_\_\_\_

Ff\_\_\_\_\_\_\_

Gg\_\_\_\_\_\_\_

HH\_\_\_\_\_\_\_

Ii\_\_\_\_\_\_\_

Jj\_\_\_\_\_\_\_

Kk\_\_\_\_\_\_\_

LL\_\_\_\_\_\_\_

Mm\_\_\_\_\_\_\_

Nn\_\_\_\_\_\_\_

Cut along dotted line

Oo\_\_\_\_\_\_\_

PP\_\_\_\_\_\_\_

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

Purple flowers are dominant to white flowers

PP\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pp\_\_\_\_\_\_\_\_\_\_\_\_\_\_

pp\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Brown eyes are dominant to blue eyes

BB\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bb\_\_\_\_\_\_\_\_\_\_\_\_\_\_

bb\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bobtails in cats are recessive to long tails.

TT\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tt\_\_\_\_\_\_\_\_\_\_\_\_\_\_

tt\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Straight hair is dominant to curly.

\_\_\_\_\_straight

\_\_\_\_\_straight

\_\_\_\_\_curly

Pointed heads are dominant to round heads

\_\_\_\_\_pointed

\_\_\_\_\_pointed

\_\_\_\_\_round

Wrinkled seeds are recessive to round seeds

\_\_\_\_\_round

\_\_\_\_\_round

\_\_\_\_\_wrinkled

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

AA \_\_\_\_\_\_\_

Bb\_\_\_\_\_\_\_

Cc\_\_\_\_\_\_\_

DD\_\_\_\_\_\_\_

Ee\_\_\_\_\_\_\_

Ff\_\_\_\_\_\_\_

Gg\_\_\_\_\_\_\_

HH\_\_\_\_\_\_\_

Ii\_\_\_\_\_\_\_

Jj\_\_\_\_\_\_\_

Kk\_\_\_\_\_\_\_

LL\_\_\_\_\_\_\_

Mm\_\_\_\_\_\_\_

Nn\_\_\_\_\_\_\_

Oo\_\_\_\_\_\_\_

PP\_\_\_\_\_\_\_

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

Cut along dotted line

Purple flowers are dominant to white flowers

PP\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Pp\_\_\_\_\_\_\_\_\_\_\_\_\_\_

pp\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Brown eyes are dominant to blue eyes

BB\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bb\_\_\_\_\_\_\_\_\_\_\_\_\_\_

bb\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Bobtails in cats are recessive to long tails.

TT\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Tt\_\_\_\_\_\_\_\_\_\_\_\_\_\_

tt\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

Straight hair is dominant to curly.

\_\_\_\_\_straight

\_\_\_\_\_straight

\_\_\_\_\_curly

Pointed heads are dominant to round heads

\_\_\_\_\_pointed

\_\_\_\_\_pointed

\_\_\_\_\_round

Wrinkled seeds are recessive to round seeds

\_\_\_\_\_round

\_\_\_\_\_round

\_\_\_\_\_wrinkle