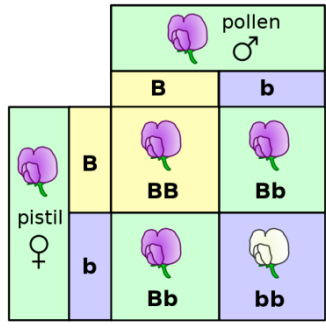


Name _____ Period _____

Genetics Practice Problems



1. For each genotype, 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 the phenotype.

- | | |
|---|---|
| <i>Purple flowers are dominant to white flowers</i> | <i>Brown eyes are dominant to blue eyes</i> |
| PP _____ | BB _____ |
| Pp _____ | Bb _____ |
| pp _____ | bb _____ |

- | | |
|---|---|
| <i>Round seeds are dominant to wrinkled</i> | <i>Bobtails are recessive (long tails dominant)</i> |
| RR _____ | TT _____ |
| Rr _____ | Tt _____ |
| rr _____ | tt _____ |

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

- | | |
|--|---|
| <i>Straight hair is dominant to curly.</i> | <i>Pointed heads are dominant to round heads.</i> |
| _____ straight | _____ pointed |
| _____ straight | _____ pointed |
| _____ curly | _____ round |

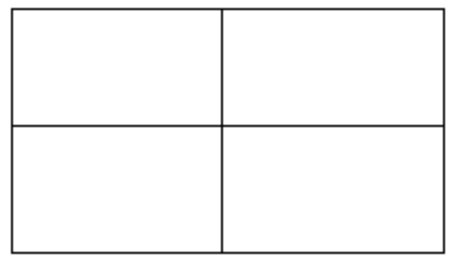
4. Set up the square for each of the crosses listed below. The trait being studied is round seeds (dominant) and wrinkled seeds (recessive)

Rr x rr



What percentage of the offspring will be round? _____

Rr x Rr



What percentage of the offspring will be round? _____