

Genetics Practice Problems Worksheet

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

AA _____	Ee _____	Ii _____	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.

- | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>a. Purple flowers are dominant to white flowers.</p> <ul style="list-style-type: none"> • PP _____ • Pp _____ • pp _____ | <p>c. Brown eyes are dominant to blue eyes</p> <ul style="list-style-type: none"> • BB _____ • Bb _____ • bb _____ |
| <p>b. Round seeds are dominant to wrinkled seeds.</p> <ul style="list-style-type: none"> • RR _____ • Rr _____ • rr _____ | <p>d. Bobtails in cats are recessive.</p> <ul style="list-style-type: none"> • TT _____ • Tt _____ • tt _____ |

3. For each phenotype below, list the **genotypes**

- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>a. Straight hair is dominant to curly.</p> <ul style="list-style-type: none"> • ____ straight • ____ straight • ____ curly | <p>b. Pointed heads are dominant to round heads.</p> <ul style="list-style-type: none"> • ____ pointed • ____ pointed • ____ round |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|