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Genetics Practice Problems from http://www.biologycorner.com/worksheets/genetics_practice.html

1. For each genotype, indicate whether it is heterozygous (HE) or homozygous (HO)

AA *HO*

Ee *HE*

Ii *HE*

Mm *HE*

Bb *HE*

ff *HO*

Jj *HE*

nn *HO*

Cc *HE*

GG *HO*

kk *HO*

OO *HO*

Dd *HE*

HH *HO*

Ll *HE*

Pp *HE*

2. For each of the genotypes below, determine the phenotype.

Purple flowers are dominant to white flowers

PP *purple*

Pp *purple*

pp *white*

Brown eyes are dominant to blue eyes

BB *brown*

Bb *brown*

bb *blue*

Round seeds are dominant to wrinkled

RR *round*

Rr *round*

rr *wrinkled*

Bobtails are recessive (long tails dominant)

TT *long tail*

Tt *long tail*

tt *bobtail*

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

Straight hair is dominant to curly.

SS *straight*

Ss *straight*

ss *curly*

Pointed heads are dominant to round heads.

PP *pointed*

Pp *pointed*

pp *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

	R	r
r	Rr	rr
r	Rr	rr

What percentage of the offspring will be round? *50%*

Rr x Rr

	R	r
R	RR	Rr
r	Rr	rr

What percentage of the offspring will be round? *75%*

Genetics Problem Solving Chapter 25 Answer Key

John R. Koza



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