

### Monohybrid Cross Problems - Answers

1. male = Yy    female = YY  
chance of orange baby (yy) = 0%
2. male = Pp    female = Pp  
chance of baby with homozygous recessive genotype (pp) = 25%
3. male = rr                      female = Rr  
chance of baby looking like mom - e.g. having 3 rings (RR or Rr) = 50%
4. male = YY                      female = yy  
chance of baby having hybrid genotype (Yy) = 100%
5. male = aa    female = Aa  
chance of baby with recessive phenotype - e.g. 1 antenna (aa) = 50%
6. male = Ee    female = Ee  
chance of baby wearing glasses (EE or Ee) = 75%
7. male = rr    female = Rr  
chance of genetically pure baby (RR or rr) = 50%

### Dihybrid Cross Problems - Answers

1. male = DdtT    female = DDTt  
chance of carnivorous baby with 8 tentacles =  $2/4 = 1/2$  or 50%
2. male = ppLl    female = PpLl  
chance of red baby with thick lips =  $1/8$  or 12.5%
3. male = ddhhvv                      female = DDHhVv  
chance of hairless baby with pointed teeth that needs glasses  $1/2$  or 50%