

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%