

# Dihybrid Cross Worksheet

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Set up a punnett square using the following information:

- Dominate allele for tall plants = D
- Recessive allele for dwarf plants = d
- Dominate allele for purple flowers = W
- Recessive allele for white flowers = w
- Cross a homozygous dominant parent (DDWW)  
with a homozygous recessive parent (ddww)


Using the punnett squares in question #1:

- a. What is the probability of producing tall plants with purple flowers?  
possible genotype (s)?
- b. What is the probability of producing dwarf plants with white flowers?
- c. What is the probability of producing tall plants with white flowers?
- d. What is the probability of producing dwarf plants with purple flowers?  
Possible genotype(s)?

1. Set up a punnett square using the following information:

- Dominate allele for black fur in guinea pigs = B
- Recessive allele for white fur in guinea pigs = b
- Dominate allele for rough fur in guinea pigs = R
- Recessive allele for smooth fur in guinea pigs = r
- Cross a heterozygous dominant parent (BbRr)  
with a heterozygous recessive parent (bbrr)


Using the punnett squares in question #2:

- a. What is the probability of producing guinea pigs with black, rough fur?  
possible genotype (s)?
- b. What is the probability of producing guinea pigs with black, smooth fur?
- c. What is the probability of producing guinea with white, rough fur?
- d. What is the probability of producing guinea with white, smooth fur?  
Possible genotype(s)?