Genetics   Name:

Chin Shape Punnett Square   Period:

Make a Punnett square for the cross below, and answer the questions. You can use Chapter 6, Section 2 of your book to help you. Remember:

genotype - what the genes say with their alleles (pairs of letters)

phenotype - what you see when looking at the organism

alleles - variations of a gene (dominant with a CAPITAL, recessive with a lower case)

each box of the Punnett square will have two letters in it

count the number of boxes that have the alleles you are looking for

as there are only four boxes, your percents can only be: 0%, 25%, 50%, 75%. or 100%

The allele for a cleft chin (**C**) is dominant. Make a Punnett square for the cross **Cc x cc.**

What are the **genotypes** of the parents? _____ and _____

What are the **phenotypes** of the parents? Cc: _____ and cc: _____

List all of the possible **genotypes** of the offspring. _____ , _____

What is the % chance that their children will have a cleft chin? _____

What is the % chance that their children will carry an **allele** with the recessive trait **c**? _____

7.2d