Genetics   Name:

Smelly Feet 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

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%

Assume the allele for smelly feet (**F**) is dominant over the allele for odorless feet (**f**). Make a Punnett square for the cross **FF x Ff**.

What are the genotypes of the parents? _____ and _____

What are the phenotypes of the parents? **FF**: _____ and **Ff**: _____

List all of the possible genotypes of the offspring of this cross: _____ , _____

What is the % chance that any babies will have smelly feet? _____

What is the % chance that any baby will carry an allele with the recessive trait **f**? _____

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