

Walk through first part together

Name: _____

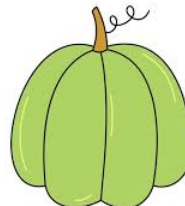
1. The gene for pumpkin skin color has two alleles orange and green. The allele for orange skin is dominant and the allele for green is recessive. We use a capital letter to represent a dominant allele and a lowercase to represent a recessive allele. In the example below an orange pumpkin with the alleles GG is crossed with a green pumpkin with the alleles gg.



Orange
GG

X

Green
gg



We draw a punnett square to work out the possible genotypes of the offspring.

	Parent 1	alleles
Parent 2 alleles		

What is the genotype for all of the offspring? _____

What phenotype will the offspring have? _____

What percentage of the offspring will have this phenotype? _____

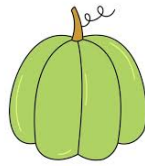
2. Draw a punnett square to determine the possible outcomes of the following genetic crosses:



Orange
Gg

X

Green
gg



a.

Outcome:

What % of the offspring are orange? _____

What % of the offspring are green? _____

What is the genotype % for this cross? (hint: give me the % for each genotype that shows up)



Orange
Gg

X

Orange
Gg



Outcome:

What % of the offspring are orange? _____

What % of the offspring are green? _____

What is the genotype % for this cross? (hint: give me the % for each genotype that shows up)