

Complex Patterns of Inheritance

Section 11.2

Incomplete Dominance

- ▶ If an organism is heterozygous for a trait, what will the phenotype be? Dominant or recessive?
 - ▶ Dominant
 - ▶ Tt for example – tall will be showing, but short is still present
- ▶ What would the result be of a cross between red-flowered snapdragons (RR) and white flowered snapdragons (rr)? Do the Punnett square



Incomplete Dominance

	R	R
r	Rr	Rr
r	Rr	Rr

- ▶ What do you think the color of the offspring will be?
- ▶ Actual color – PINK!
- ▶ Incomplete dominance
 - ▶ Heterozygous genotype is a mixture
 - ▶ Somewhere *between* the dominant and recessive trait
- ▶ Cross a heterozygous pink with a heterozygous pink



Incomplete Dominance

▶ When a heterozygous pink is allowed to self fertilize you get the 1:2:1 ratio

- ▶ 1 – red
- ▶ 2 – pink
- ▶ 1 - white

	R	r
R	RR	Rr
r	Rr	rr

