## 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 redflowered snapdragons (RR) and white flowered snapdragons (rr)? Do the Punnett square

## Incomplete Dominance

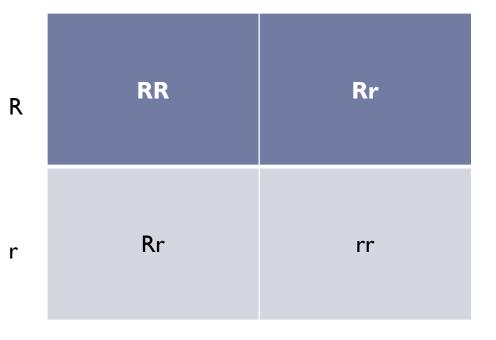
R R

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

R r



- When a heterozygous pink is allowed to self fertilize you get the 1:2:1 ratio
  - I − red
  - ▶ 2 pink
  - ▶ I white