

SC.912.L.16.1 – Genetics – Example 7 Answer

The table lists the trials for fruit color where allele R exhibits incomplete dominance over allele R'.

Genotype	Phenotype
RR	Red
R'R'	Yellow
RR'	Orange

Heterozygous fruit have orange phenotypes. What percent of offspring are expected to have an orange phenotype if the parent plants are orange (RR') and yellow (R'R')?

- A. 25%
- B. 50%
- C. 75%
- D. 100%

Answer

The Punnett Square would look like this:

	R'	R'
R'	R'R'	R'R'
R	R'R	R'R

So, the answer is B. 50% of the offspring would have an orange phenotype.