

MATH LAB**● Calculating Mendel's Ratios****Background**

You can calculate the ratios Mendel obtained in the F₂ generation for the traits he studied. First copy the partially completed table below on a separate piece of paper.

Contrasting Traits	F₂ Generation results		Ratio
Flower color	705 purple	224 white	3.15:1
Seed color	6,022 yellow	2,001 green	
Seed shape	5,474 round	1,850 wrinkled	
Pod color	428 green	152 yellow	
Pod shape	882 round	299 constricted	
Flower position	651 axial	207 top	
Plant height	787 tall	277 dwarf	

Analysis

1. Calculate the ratio for each contrasting trait. Use colon form.
2. State the ratio for each contrasting trait in words and as a fraction.
3. Do the data confirm that Mendel obtained a 3:1 ratio in the F₂ generation for each of the traits he studied?