

Linkage analysis of multiple traits: javelin bristle, striped body, pink eyes

3-point test cross: $jv/+ \text{ str}/+ \text{ pi}/+ \text{ ♀} \times jv/jv \text{ str}/\text{str} \text{ pi}/\text{pi} \text{ ♂}$

determine the linkage map, using the following data:

♂ gametes	♀ gametes	progeny phenotype	#progeny
$jv \text{ str} \text{ pi}$	$jv \text{ + } \text{ +}$	javelin	294
$jv \text{ str} \text{ pi}$	$\text{ + } \text{ str} \text{ pi}$	striped, pink	287
$jv \text{ str} \text{ pi}$	$jv \text{ str} \text{ pi}$	javelin, striped, pink	140
$jv \text{ str} \text{ pi}$	$\text{ + } \text{ + } \text{ +}$	wild type	139
$jv \text{ str} \text{ pi}$	$\text{ + } \text{ + } \text{ pi}$	pink	66
$jv \text{ str} \text{ pi}$	$jv \text{ str} \text{ +}$	javelin, striped	65
$jv \text{ str} \text{ pi}$	$jv \text{ + } \text{ pi}$	javelin, pink	4
$jv \text{ str} \text{ pi}$	$\text{ + } \text{ str} \text{ +}$	striped	5