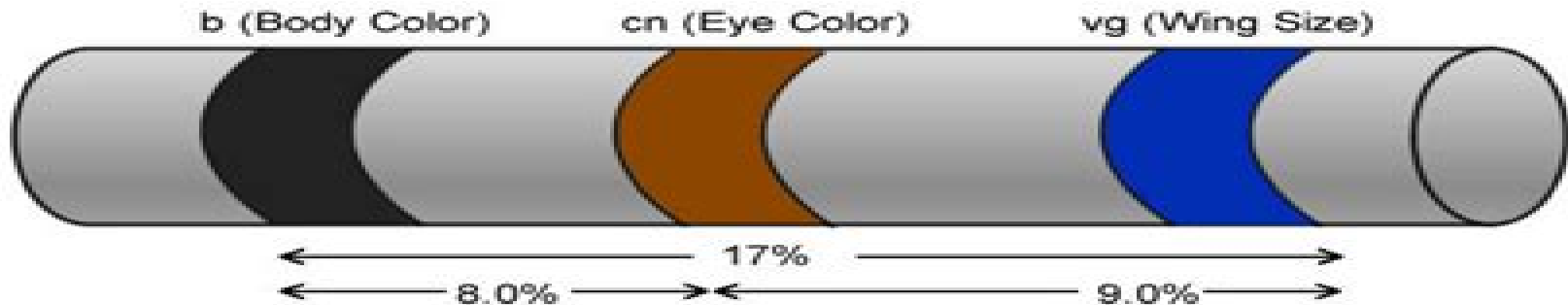


How to Create a Chromosome Map from Crossover Frequencies

Recombination: During crossing-over (prophase I of Meiosis), genes on chromosomes switch places. Crossover is random, but the likelihood that 2 genes crossover will increase if those genes are farther apart. Genes closer together are more likely to "stick together" and not switch places.

Gene Linkage Maps: Using the crossover frequencies, you can construct a map to represent the distances between genes.

This map shows chromosome #2 of *Drosophila melanogaster*. The distance between the genes can be written as a percentage or as a MAP UNIT. The gene for body color and wing size are 17 map units apart.



Sample Problem:

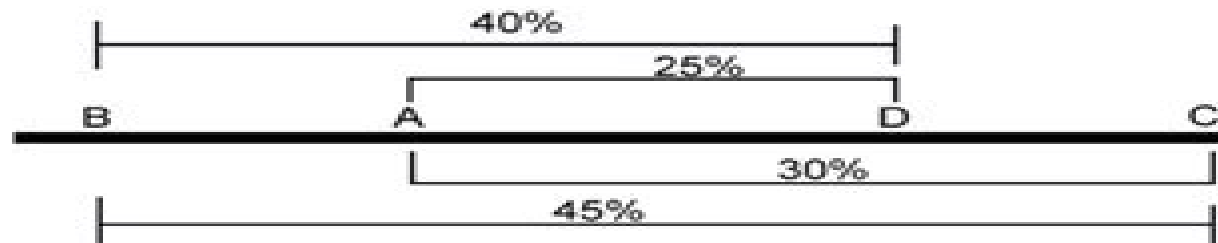
Given the crossover frequency of each of the genes on the chart, construct a chromosome map.

Gene	Frequency of Crossover
A-C	30%
B-C	45%
B-D	40%
A-D	25%

Step 1: Start with the genes that are the farthest apart first: B and C are 45 map units apart and would be placed far apart.

B 45% C

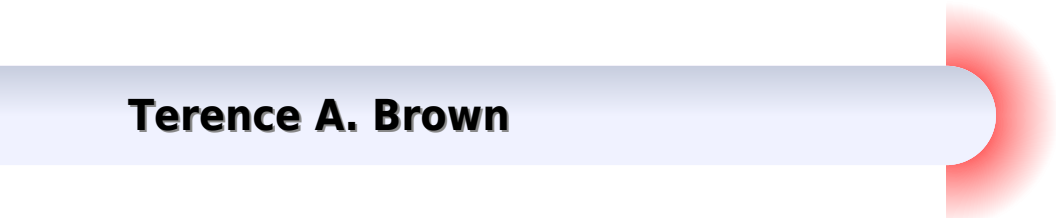
Step 2: Solve it like a puzzle, using a pencil to determine the positions of the other genes.



Step 3: Subtraction will be necessary to determine the final distances between each gene.

Answers Mapping Chromosomes

Terence A. Brown



Answers Mapping Chromosomes:

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