

•	Draw a Venn diagram of a sample space.	. Draw two shapes in this diagram to represent two mutua	ally
	exclusive events $X = x$ and $Y = y$.		

• Draw a Venn diagram of a sample space. Draw two shapes in this diagram to represent two concurrent events X = x and Y = y.

• Write out the inclusion-exclusion principle and use a Venn diagram to explain the origin of each of the terms in this expression.