6E and 6F - Venn Diagrams

Find the variance and standard deviation of the data set below.

33, 10, 19, 16, 32, 30, 20, 15, 12, 23

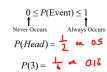
 $\mu = 21$ Variance = $\sigma^2 = 61.8$ StandardDeviation = σ = 7.861

Set and Probability Notation

Probability of an event occurring = P(Event)

Examples:
• Probability of flipping a fair, 2 sided coin

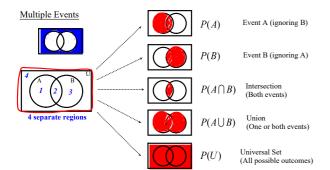
• Probability of rolling a fair, 6-sided dice

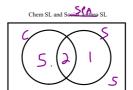


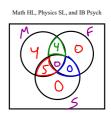


A = Event A and A' cannot

U = Universal Set - Includes all possible outcomes







In a group of 50 students, 10 have blue eyes and blond hair and 12 have neither blue eyes nor blond hair. If the total number of students with blond hair is 34, find the total number of students with blue eyes.

