Example 6 (Conditional Part) Perine A and B A (Young 3 Ast event B { male } though but BIA [Males that are young] Get Samele Space Total Sample Space: 40 + 50 + 60 + 50 = 200 Sample Space of A: (40, 503 > 40 + 50 = 90 Sample Space of B! & 40,603 > 40+60 = 100 Sample Space o+ BIA: (403 = 40 Set this up based on the problem BIA 40/200 = 40 ≈ 0.44 9/200

Example 7 (Conditional Part)
Define A and B
A (Math mort enionable)
B { Female Student }
BIA E Female Stodent Choose Moth as Most Enjoyable 3
Get Samele Spaces
Total Sample Space: 178 students = 178
Sample Space of A: 40 students = 40
Sample Space of B: 88 students = 88
Sample Space of BIA: 16 students = 16
$P(B1A) = P(B n A) = 16/178 = 16 \approx 0.40$ $P(A)$ 40/178 40