& x 6 = 36 different irrangements 2. a. 8! = 40320 b. - permittations for givering of each couple - binary country for left - right of each couple 41.24 = 384) c. 4! = 24 3. a. - each question has 4 possible mycest - in total there are 45 = 1024 possible snowingtons 6. @ (3) = 23.7% total possibilities: 254
correct 3 (4) = 41(84)! = 70 probability = 40 = 27.34% 5. a. total entrong: &= 36 successful entrong: 5 probability: 3/36 = 13-8% 6. successful outcomes: 8 probability: \$/36 = 22.2% (e. a. 4! = 720 6. 50% as effect could be any order to equal frequency 7. spy= 360 8. 40 45 = 1024 = 0.0394% b 13 - a = 0.512% > 12 juiles cyclic 9 4. 0.7. 0.4 = 0.28 6. (1-0.7)(1-0.4) = 0.18 54+69-35= 88% 100-88 = 22% 49-35 = 34%

1 (2-h)