

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 131- Test 4

Exercise 1 *A die is rolled twice. What is the probability of showing a 5 on the first roll and an even number on the second roll?*

Exercise 2 *A CBS News poll conducted June 10 and 11, 2006, among a nationwide random sample of 651 adults, asked those adults about their party affiliation (Democrat, Republican or none) and their opinion of how the US economy was changing ("getting better," "getting worse" or "about the same"). The results are shown in the table below.*

	better	same	worse	Republican
Democrat	38	104	44	12
87	137	21	90	118

If we randomly select one of the adults who participated in this study, compute: $P(\text{Democrat})$, $P(\text{same})$, $P(\text{same}|\text{Democrat})$, $P(\text{Democrat}|\text{same})$, and $P(\text{Democrat and same})$.