Choose a (uniformly) random number in {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}. • What is the probability it is <u>even</u>? <u>Answer</u>:

• But now suppose I told you that the number is a <u>multiple of 3</u>. What is the probability it is even? <u>Answer</u>: