A couple plans to have children until they have a girl or until they have 3 kids, whichever comes first. What is the probability that they will have 3 children without having a girl? D what's the probability that a couple will have 3 kids without a girl? outcomes: 6, B6, BB6, BBB Each child has a 5 chance of being a girl and a .5 chance of being a boy. 2) We will flip a coin with Heads = Boy and Tails = Sirl. We will flip until we get a T or 3 Heads whichever comes 1st. We will repeat this 20 times. Then we will record the # of times we got 3 heads. 3. HHH "HHT - <sup>2.</sup>HT (3) "++++T 12.++++T 13.++++++ 14. T 15.++T 16: HHH 17. T 18. T 17. T (1) (n these 20 repetitions we got 4 times with 3 boys and O girls.  $\frac{4}{20} = \frac{1}{5} = 20\% = .2$ Based on our simulation, we would estimate that about 20% of the time a couple will have 3 boys and no girl.