| Chapter 7.2 Monday, Week 6 |
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| Warmup |
| I roll two dice. What is the chance that the product of the two numbers is even? |
| There is a 50% chance of sun tomorrow and a 20% chance of crows. If these events are independent, what is the chance of sun and/or crows? |
| What is the chance of getting 3 heads and 2 tails in 5 flips of a fair coin? |
| Sampling With and Without Poplacement |
| Sampling With and Without Replacement |
| There are five boys and five girls, and I pick five of them at random for a team. What is the probability that I pick two boys and three girls? |

What if I pick the team of five from fifty boys and fifty girls instead? (Find the percentage if you have a

calculator.)

| Bernoulli Trials |
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| There is a coin that lands on heads with probability p . If I flip it three times, what is the probability that I get exactly two heads? |
| I have a coin that lands on heads 30% of the time. If I flip it 100 times, what is the most likely number of times it will land on heads? |
| Duels Here is a fun game: Heads I win, tails we flip the coin again. What is the probability that I win? |
| Here is another game: We roll a fair die. 1, 2, $3 = I$ win, 4, $5 = you$ win, $6 = roll$ again. What is the chance that you win? |