

## Probability Practice for AP Statistics

Please complete on a separate sheet of notebook paper with work shown.

1. What is the probability of flipping a coin and getting heads?
2. What is the probability of flipping a coin and getting heads, then flipping a coin and getting tails?
3. What is the probability that you'll flip a coin 10 times and get 10 heads?
4. What is the probability that you'll flip a coin twice and get exactly one heads and exactly one tails?
5. What is the probability of drawing a 10 in a deck of cards?
6. What is the probability of drawing a 10, and then another 10 (without replacing the first)?
7. What is the probability of drawing the 10 of hearts?
8. What is the probability of drawing a 10 or a heart?
9. What is the probability of drawing the 10 of spades and then (after not replacing the first) drawing a heart?

10. 85% of statistics students are male. 74% of statistics students are involved in sports.

a. Assuming sports involvement and gender are independent, what percentage of stat students are females involved in sports?

b. What percent are males not involved with sports?

11. 20% of Stat AP students are blonde. Blondes have a 60% chance of passing the AP test. Brunettes have a 70% chance of passing the AP test. If you chose a random student, what would be the chance of them passing the AP test? (For our purposes, all the students are blonde or brunette.)