

1. I will have a sheet like this after every written homework, but not the computer ones.

Math 461
HW1 written
recap

2. Scores were high, as I'd expected and had.

3. It is always important to explain your answers in words. Each problem should contain at least one sentence. This also helps you get partial credit.

4. If you submit > 1 sheet, please staple or clip, don't fold.

1. It's an approximation, not an exact answer. As we'll see, if the ratio $\frac{\text{[shaded box]}}{\text{[hatched box]}}$ were exactly .1423, the

probability that 10000 trials would yield exactly 1423 hits is about .011. For this reason, the precision many of you gave to your answer was unjustified.

2,3

4	5	6	7	8
3	4	5	6	7
2	3	4	5	6
1	2	3	4	5

1 2 3 4

"with replacement"

4	5	6	7	X
3	4	5	X	7
2	3	X	5	C
1	X	3	4	5

1 2 3 4

"without replacement"

Most common errors

2f. $2 \in B^c$, but $2 \in A$

so $2 \in A \cup B^c$

3. Set up of the problem. Ask if you still have questions

Events A and B are not independent.

4. A variation is to let $D = A^c =$ "1st flip is different from the 2nd flip". Then $B \cap C \cap D$ is the set of flips so that all three are different. If this occurs, I don't want to gamble with you.