

Show all your work. You must show at least some work in each problem in order to receive credit.

**Please do not write in the margins of the page!**

2.6.15) Suppose that two cards are drawn, in order, from a standard 52-card poker deck. In how many ways can the first card be a club and the second card be an ace?

There are 13 ways that the first card could be a club. However, one of those ways is if it is the ace of clubs. If the first card is NOT the ace of clubs, then there are four ways that the second card can be an ace. But if the first card is the ace of clubs, there are only three ways that the second card can be (another) ace.

Therefore there are  $13 \cdot 3 + 3 = 51$  ways that the first card can be a club and the second card an ace.

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