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INTRODUCTION TO PROBABILITY

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results, Solution to Problem 1.14. (a) Each

possible outcome has probability $1/36$. There

are 6 possible outcomes that are doubles, so

the probability of doubles is $6/36 = 1/6$. (b)

The conditioning event (sum is 4 or less)

consists of the 6 outcomes

$(1;1);(1;2);(1;3);(2;1);(2;2);(3;1)$; 2 of which

are doubles, so the conditional probability of

doubles is $2/6 = 1/3$.

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this problem, there is a tendency to reason

that since the opposite face is either heads

or tails, the desired probability is $1/2$. This is,

... probability that the opposite face is tails is

$1 - p = 1/3$.

changes the way in which we look at many

problems in probability. For example, being

able to calculate exact binomial probabilities,

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pro-, For each problem set, there is also an

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