# Macintosh HD:Users:Amit:Progs:ExcelerateLive:HTML:ml.png Excelerate Lesson Plan

**Probability**

**About These Problems**

**Probability is a very vast and complicated field of mathematics. Thankfully most of the probability in standardized testing is event probability. Given a sample space of possible events, each being equally likely to happen, you will be asked to find the probability of a certain event.**

**Basic Formulas.**

Assuming independence, which means both events are unrelated.

P(A) = Probability event A occurs

P(B) = Probability event B occurs

P(A and B occur) = P(A) \* P(B)

P(A or B occur) = P(A) + P(B)

**Question.** If we are given two unloaded dice and are asked to roll an 8, what is the probability that will happen.

1. 5/36
2. 1/3
3. 7/36
4. 1/6
5. 1/4

**Answer.** **A**: Since there are 36 equal outcomes of a dice we have to count how many we can roll that yield a score of 8. (2,6) | (6,2) } (3,5) | (5,3) | (4,4) which yield 5 outcomes over 36 total.