

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.

- A. 5/36
- B. 1/3
- C. 7/36
- D. 1/6
- E. 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.