# Conditional Probability

A conditional probability is the probability of an event occurring given that another event has already occurred. The notation reads: P(A|B) = Probability of A given that B has already occurred.

$$P(A \mid B) = \frac{P(A_{AND}B)}{P(B)}$$

**Example:** Suppose that event A is rolling a die = 5, or A = {5}. Suppose event B is rolling an odd number, or B = {1,3,5}. So, P(A|B) is 1/3. The probability of rolling and odd number is P(B) = 3/6. The intersection of A and B is 5, and P(5) = 1/6.

$$P(A \mid B) = \frac{P(A_{AND}B)}{P(B)} = \frac{1/6}{3/6} = .333$$

4          3

# Conditional Probability Examples And Solutions

**Geoffrey Knight**

**Conditional Probability Examples And Solutions:**

**Problem Solving in Mathematics Education** Torsten Fritzlar,Daiela Assmus,Kerstin Bräuning,Ana Kuzle,Benjamin Rott,2016-06-30 From 3rd to 5th of September 2015 the 17th international ProMath conference Problem Solving in Mathematics Education took place at the Faculty of Education of the Martin Luther University Halle Wittenberg Germany For the first time it was combined with the annual meeting of the working group Problem Solving of the Society of Didactics of Mathematics This book contains 20 peer reviewed articles of researchers from five European countries The topics of the papers evolved around different areas of learning and problem solving There are some theoretical papers on problem oriented mathematics instruction and specific aspects of problem solving and creativity as well as reports on detailed studies of problem solving processes of pupils and preservice teachers Authors also present experiences with real problem solving instruction in different countries considerations and teaching experiments on didactic concepts to foster pupils problem solving abilities and they describe mathematically rich problem fields and their potentials for mathematical investigations in class ProMath is a group of experienced and early career researchers in the field of mathematics education who are interested in investigating and fostering mathematical problem solving and problem oriented mathematics teaching

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