

Compound Probability

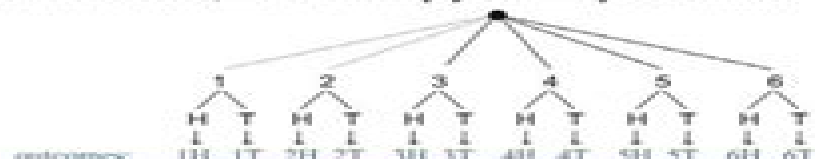
Compound probability means finding the probability where two events both occur. If the outcome of the one event does not affect the outcome of the other, they are said to be **independent**. In that case you can find the probability of two events occurring by multiplying the probabilities of the two events. Examples will make this clear.

Example 1. You toss a coin, and then you roll a die. What is the probability of getting 6 and heads?

$P(6)$ is $1/6$, and $P(\text{heads})$ is $1/2$. Clearly, whether you get heads or tails on the coin does not affect what you get on the roll. The two events are *independent*. Therefore, we can multiply the two probabilities.

$$P(6 \text{ and heads}) = \frac{1}{6} \times \frac{1}{2} = \frac{1}{12}$$

You can also see this probability by looking at the tree diagram, because in only one outcome out of the twelve possible ones do we have 6 and heads.

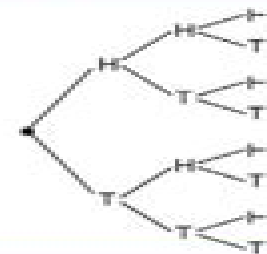


Example 2. You toss a coin three times. What is the probability of getting heads every time?

These three events—toss a coin, toss a coin, toss a coin—are independent. Getting heads on one toss doesn't affect whether you get heads or tails on the next.

$$P(\text{heads}) = 1/2. \text{ Therefore, } P(\text{heads and heads and heads}) = \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{8}$$

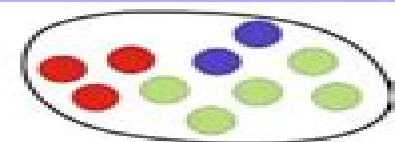
You can also see this from the tree diagram. There is only one outcome with "HHH", and a total of 8 possible outcomes.



Example 3. The bag has three red marbles, two dark blue marbles, and five light green marbles. You take one marble, and put it back. Then you take a marble again, and put it back. What is the probability of getting first a red marble, then a blue one?

Again, we simply multiply the individual probabilities:

$$P(\text{red, blue}) = \frac{3}{10} \times \frac{2}{10} = \frac{6}{100} = \frac{3}{50}$$



1. You toss a coin three times.
 - a. What is the probability of getting tails, then heads, then tails?
 - b. What is the probability that you get heads on your second toss?
 - c. Use the tree diagram. What is the probability of getting two heads and one tails in three tosses? Note they can be in any order, such as THH or HTH.



Compound Probability Worksheet Answers

RC Schank

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the 'RC Schank' text.

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Algebra Teacher's Activities Kit Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-11-30 Help your students succeed with classroom-ready standards-based activities. *The Algebra Teacher's Activities Kit: 150 Activities That Support Algebra in the Common Core Math Standards* helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills. This newly updated second edition is formatted for easy implementation with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12. Coverage includes whole numbers, variables, equations, inequalities, graphing polynomials, factoring, logarithmic functions, statistics, and more, and gives you the material you need to reach students of various abilities and learning styles. Many of these activities are self-correcting, adding interest for students and saving you time. This book provides dozens of activities that directly address each Common Core algebra standard. Engage students and get them excited about math. Are tailored to a diverse range of levels and abilities. Reinforce fundamental skills and demonstrate everyday relevance. Algebra lays the groundwork for every math class that comes after it, so it's crucial that students master the material and gain confidence in their abilities. *The Algebra Teacher's Activities Kit* helps you face the challenge well-armed with effective activities that help students become successful in algebra class and beyond.

S.Chand's Mathematics For Class IX Term II H.K. Dass, Rama Verma & Bhagwat S. Sharma, S Chand's Mathematics books for Classes IX and X are completely based on CCE pattern of CBSE. The book for Term I covers the syllabus from April to September, and the book for Term II covers the syllabus from October to March.

Media Index, 1979 *Updated Maths Zone 8 (18-19)* No Author, 2020-10-10 *Maths Zone Updated Edition* is a series of eight books for Classes 1 to 8. The series conforms to the objectives outlined in the National Curriculum Framework. The updated edition of *Maths Zone* is trying to make a difference with its new features, incorporates the latest requirements across various boards. With its activity-oriented approach, the series aims to inculcate lateral thinking, analytical research, and deduction skills in students, thus urging them to explore beyond the boundaries of textual knowledge.

Backpacker, 2001-03 *Backpacker* brings the outdoors straight to the reader's doorstep, inspiring and enabling them to go more places and enjoy nature more often. The authority on active adventure, *Backpacker* is the world's first GPS-enabled magazine and the only magazine whose editors personally test the

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