

## Permutations/Combinations

1. We have 3 cards A, B, C. How many ways are there of arranging them?

ABC, ACB, BAC, BCA, CBA, CAB = 6

A quicker way would be 3!

**No. of ways of arranging  $n$  items in order =  $n!$**

e.g. 3 eggs and 5 sausages are being put in order on a plate.

1. no. of possible arrangements:  $8! = 40,320$
2. All the eggs must be together, how many arrangements:  $6! = 720$   
(3 eggs count as 1)
3. Probability that eggs together: 
$$\frac{\text{What we want}}{\text{Total number}} = \frac{6!}{8!} = \frac{1}{56}$$

### Permutation

Given 7 letters A, B, C, D, E, F, G

1. How many ways can we choose 4 letters?

1<sup>st</sup> letter: 7    2<sup>nd</sup> letter: 6    3<sup>rd</sup> letter: 5    4<sup>th</sup> letter: 4

No. Choices =  $7 \times 6 \times 5 \times 4 = 840$  ways

$$= \frac{7!}{(7-4)!} = \frac{7!}{3!}$$

$$^n P_r = \frac{n!}{(n-r)!}$$

$n$  = Choices

$r$  = Us choosing

### Combination

We have 8 people on a Committee. We have 15 people to choose from:

1. How many ways can we choose the 8 people?

Q? Is the order of selection important? Yes: Permutation

No: Combination

$$^n C_r = \frac{n!}{r!(n-r)!}$$

$n$  = Total no. of choices

$r$  = What we want

# Acc Math I Permutations And Combinations Answers

**Tim Hill**

## Acc Math I Permutations And Combinations Answers:

**Essential Permutations & Combinations** Tim Hill, 2018-04-29 The mathematics of counting permutations and combinations is required knowledge for probability statistics professional gambling and many other fields. But counting is hard. Students find it hard. Teachers find it hard. And in the end the only way to learn is to do many problems. Tim Hill's learn by example approach presents counting concepts and problems of gradually increasing difficulty. If you become lost or confused then you can back up a bit for clarification. With practice you'll develop the ability to decompose complex problems and then assemble the partial solutions to arrive at the final answer. The result learn in a few weeks what conventional schools stretch into months. Teaches general principles that can be applied to a wide variety of problems. Avoids the mindless and excessive routine computations that characterize conventional textbooks. Treats counting as a logically coherent discipline not as a disjointed collection of techniques. Restores proofs to their proper place to remove doubt, convey insight and encourage precise logical thinking. Omits digressions, excessive formalities and repetitive exercises. Provides exceptional preparation for probability and statistics courses. Includes problems with all solutions that extend your knowledge rather than merely reinforce it.

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**About the Author** Tim Hill is a statistician living in Boulder, Colorado. He holds degrees in mathematics and statistics from Stanford University and the University of Colorado. Tim has written self-teaching guides for Algebra, Trigonometry, Geometry, Precalculus, Advanced Precalculus, Permutations, Combinations, Mathematics of Money and Excel Pivot Tables. When he's not crunching numbers, Tim climbs rocks, hikes canyons and avoids malls.

**The Doctrine of Permutations and Combinations** Francis Maseres, 1795

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