A fair 6-sided die is rolled 8 times and the resulting sequence of

How many different sequences are possible?

8 numbers is recorded.

1. (3 points) Library/ASU-topics/setCount/sw10_1_7.pg  How many different ways can a race with 5 runners be completed? (Assume there is no tie.)	How many different sequences consist entirely of even numbers?  How many different sequences are possible if the first, third, and fourth numbers must be the same?
Your answer is :	8. (3 points) Library/Rochester/setAlgebra38Counting/sw10_2_60
2. (3 points) Library/UBC/STAT/STAT302/HW01/HW01-03.pg	.pg A school dance committee is to consist of 2 freshmen, 3 sopho-
A test contains eight true/false questions. Assuming you attempt each question, in how many different ways could you answer the test?	mores, 4 juniors, and 5 seniors. If 5 freshmen, 8 sophomores, 7 juniors, and 9 seniors are eligible to be on the committee, in how many ways can the committee be chosen?  Your answer is:
3. (3 points) Library/UBC/STAT/STAT302/HW01/HW01-04.pg	9. (3 points) Library/Mizzou/Finite_Math/Set_Theory_Permutatio
A man has five ties, six shirts, and five different pairs of	ns_Combinations/SeatingArrangements.pg
trousers. How many different ways does he have to dress himself?	The CEO of a company has a table in his office which can seat 4 employees. How many seating arrangements are possible if 4 out the 13 employees sit at the table?
4. (3 points) Library/UBC/STAT/STAT302/HW01/HW01-05.pg	——————
A president, a treasurer, and a secretary are to be chosen from a committee with forty members. In how many ways could the three officers be chosen?	10. (3 points) Library/Westmont/EoDM3/Inquiry_4_1/iprob4_3.pg  A ternary string is a string made up of 0's, 1's. and 2's. How many ternary strings of length 7 are there?  Number of 7-digit ternary strings =
5. (3 points) Library/Rochester/setAlgebra38Counting/sw10_2_19 .pg In how many ways can 4 students be seated in a row of 4 chairs if Jack insists on sitting in the first chair? Your answer is:	T1. (3 points) Library/UMN/algebraKaufmannSchwitters/ks_15_2_2 5.pg  How many 4-element subsets containing the letter A can be formed from the set $\{A,B,C,D,E,F,G\}$ ?  Answer:
6. (6 points) Library/Mizzou/Finite_Math/Set_Theory_Addition_a	12. (12 points) Library/ASU-topics/setCount/pcount1.pg
nd_Multiplication_Principles/MultiplicationPrinciple3.pg A standard Missouri state license plate consists of a sequence of	A coin is tossed 14 times.  a) How many different outcomes are possible?
two letters, one digit, one letter, and one digit. How many such license plates can be made?	b) How many different outcomes have exactly 6 heads?
	c) How many different outcomes have at least 2 heads?
A standard New York state license plate consists of a sequence of three letters followed by three digits. How many such	d) How many different outcomes have at most 10 heads?
license plates can be made?	13. (6 points) Library/ASU-topics/setCount/pcount2.pg A boy has 4 red, 3 yellow and 3 green marbles. In how many
7. (9 points) Library/Mizzou/Finite_Math/Set_Theory_Addition_a nd_Multiplication_Principles/MultiplicationPrinciple2.pg	ways can the boy arrange the marbles in a line if:  a) Marbles of the same color are indistinguishable?

b) All marbles have different sizes?

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