```
addition
7=5+2
           disjoint union of sets
                                                       Kha Le
                                   Size of disjoin' union
1x = 1A1+1B1
            CSC 2259 (1128170) Notes
  intersection
             Symmetry: ((n,m) = ((n,mm))
             rows of pascal
(A \cap B = \emptyset)
             N=5, m=3
                             Early, c,d,es
A and B has
                                                      X linked to X°
                      3-Subsets
                                            2-subsets |x|=ine of x.
          la,b,c,det la,b,c}
                                          £a,63
                                                      =# (items in x)
                  fab,d3
                                          {a,c}
                                                      = Cardinality of X
                                                      |X|=m |Xc|=n-m
             complement of a set X = set of items not in X
              X=X= complement of C {de} = {a,b,c}
 X=AUB
  Union (disjoint)
             Every m-subset X is related to its complement X'
(put together)
leading up to
              which is an (n-m)-subset.
proof of
                     X is related to two or more (n-m) subjets
symmetry property
of ((n,m)
                not two different X's are related to same complement.
               ((5,2) = c(4,1) + c(4,2) ># (m-subsets of {1,2, ..., n-1})
f (m-subsets
              ((n,m)= ((n-1,m-1)+((n-1,m)
of [1,2,...n3)
                    # ((m-1) - subsets of {1,2,..., n-1})
```

3-subsets of Earlicide3 n=5, m=3 Checker in a committee £9,6,c} 2- subson of Ea, b, c, a3 {a,b,d}-20,6} { a, b, e} {.b, cd} -((5,3)= c(4,2) + c(n-1,m) 16,63 { b, c,e} £ 9, C, d} {a,c} {a,b,c} {a,c,e} {a,d}. {a,b,d}. {a,d,e} 26, d, c} {b,d} {b,c,d} { k,d,e} {c,d} { a, c, d} 3-subsets of {a,b,c,d} The per getting on a language to the much X is related to the complement L- Call No.

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