

```
Harmork #9
Jection 1.2
                                            Section 9.3
#32
                                            Q24.
9.
         There are 9 distinct letters
                                                      .. The probability that the integer
         in the word algorithm.
                                              6.
                                                         is a multiple of 2 os a
                                                           multiple of 9 is
         P(1,7) = 9!
                                             Section 9.3
                                                           N ((AUB)) = N(U-AUB)
                                              Q24.
                                               C.
                                                                        = N(U)-N(AUB)
         = 9 x 8 x 7 x 6 x 5 x 4 x 3 x 2 x
                                                                        = 1000 - 556
          = 362,980
                                                                            444
Section 9.2
# 32
                                                                          Section 9.3
                                               Section 9.3
                                                                         Q 34
       AL
                  8 ×7!=81
                                               0.34
       _ AL
                         = 40,320
       -- AL
                                                0.
                                                       N(A)=21
       ~- AL
                                                       N(b) = 21
       --- AL
                                                      N(c)=31
      ---_AL
                                                                                                conty not AB
      ---- AL
                                                      N(A n B) = 9
      ----- AL
                                                                            section 9.3
                                                      N(A 1 C) = 14
        ----- AL
                                                                              Q 34.
                                                      N( b 1 C)=15
                                                                                    N(A) - N(A A B) - N(A AC) + N(AA BAC)
                                                      M(A V B UC) = 41
Section 9.2
                                                                                                21-9-14+6
# 32
                                                    50-41=9
                    Got can remain together
                                                                              .. Amber of subjects who got relief
                    in 6! ways
         GOR
                                                                                 from only A : 5 4.
                                                Section 9.3
         - GOR
                        7 +6! = 7!
         -- 6-OR
                                                Q34
         --- GOR
                                                        N(A U B U C)= N(A) + N(B) + N(G - N(A n B)
                                                 6.
                            = 5.40
         ---- GOR
        ---- GOR
                                                                       - N(B nc) -N(A nc) + N(A nB nc)
          ---- Gok
                                                         41=21+21+31-9-15-14+N(Anbac)
Schion 9.3
                                                                 41 = 35 + N (A n B n C)
# 24
                                                                       N(A n B nc) = 6
       A= He set of all integers from 1 through
                                                 N(A) = 500
                                                                    .. Number of pupe who got relied
       1000 that are multiple of 2
                                                 N(B)=111
                                                                          from an there drags is 6
       B= He set or all integers from 1 through
                                                N(A n B) = 55
       loss that are multiple of 9
       A ub = all integro from 1 to lood that one
                                                N(AUB) = N(A) + N(B) - N(A N B)
                Autific of 2 or 9
       And = all integers from the Loop but me
                                                          = 500 +111-55
                                                                        = 556
                                                           = 611-55
                 multiple of both 2 and 9
```