



Ahn Tran Bathroom problem

ABCJ= 35***
 AEFJ=30
 DFJ=20
 GHFJ=27
 GIJ=28
 Critical path is the longest path and any delay will delay the overall project.

Males:
 $r = 3.33/1.33 = 2.50$
 $Lq(\text{table}) = 0.13$
 $Ws = Lq/\lambda + 1/\mu$
 $= 0.13/3.33 + 1/1.33 = 0.79$ minutes

Females:
 $r = 3.33/0.76 = 4.38$
 $Lq(\text{table}) = 5.3$
 $Ws = Lq/\lambda + 1/\mu$
 $= 5.3/3.33 + 1/0.76 = 2.91$ minutes

If not started by 18, and nothing else has changed, the project will not finish on time, unless something is done to either crash F or crash J.

If all the other activities hold on schedule and E and H are finished by 13, then F has 5 weeks of slack, or leeway to shift the work.. This could be changed by any of the other steps if they changed enough. speeding them up could increase slack. slowing them down would decrease slack. Detail on this will make a good exam question for the future.

Since women spend over 2 minutes more than males do, equal is not equitable in this case. Although management science has not yet prevailed in all areas, studies such as this one are being used to get things changed. Management science pervades all aspects of our lives. Management Science is more than just a way to make a living, it's a way of living life.