

THE PROBLEM SOLVING COMPETITION

OCTOBER 30, 2007

Problem

Julio has 6 favorite DVDs. If each DVD is 20 minutes long and Julio wants to watch all 6 DVDs over and over in every conceivable order, how long (in hours) will it take him to accomplish this? He will, for example, watch all 6 in a row in one order and then watch the same 6 in a different order, repeating this until all possible orders are achieved.