8-1 Two types of visits are provided by the Durham Health Clinic, first-time visits and return visits. Table 8-5 provides the processing time for each work station and the available staff hours per week. Determine the product frontiers for this clinic and indicate which station should be expanded to increase the overall capacity of the clinic. Which service station could reduce? Table 8-5 Processing time and staff hours date Durham health clinic exercise 14-1 Work station Time estimates hours First visit visit 0.25 0.12 Reception/ discharge Nursing and testing 0.40 0.38 Medical exam and treatment 0.50 0.25 8-2 Durham health clinic has a contribution margin of $35 per visit. Calculate the break-even point in visits with fixed costs at $400, $6500, and $8500 per week. Give this analysis, as a manager, what would you recommend and why? 8-3 During health clinic is considering signing a contract to perform 50 preemployment physical per week for a specific corporation. In terms of staff time, a preemployment requires 0.20 hours in reception/ discharge, 0.45 hours in nursing and test, and 0.20 hours in medical examination. By work-station, determine how many work hours per week will be needed to perform theses physical. 8-4 Currently the clinic does 250 visits per week, with 50% of all visits as return visits. Each employee (physical, nurse, and receptionist) is scheduled to work 35 hours per hours. a. How many employees by type does the clinic currently needs? b. How many employees by type will the clinic need if it signs the contract for pre-employment physical? c. If return visits shift 10% of all regular visits, how many employees by type will the clinic need with and without the contract for pre-employment physicals.? d. How will the answers to “b” and “c” change if the number of physical as is modified to 35 pre-employment physical per week? Throughout theses analyses, specify all assumption, including assumption concerning productivity. 8-5 How would your answers change for problem 8-1 nursing and testing time was increasing to 0.50 hours for both first and repeat visits, and medical exam and treatment time was reduced to 0,30 hours for visit and 0.20 for return visti.