

Linear Programming partner problem

Brad is an organizer of a 10K race and must hire workers for one day to prepare the race packets. Skilled workers cost \$60 a day, and students cost \$40 a day. Brad can spend no more than \$1440. He needs at least 1 skilled worker for every 3 students, but only 16 skilled workers are available. Skilled workers can prepare 25 packets per hour, and students can prepare 18 packets per hour. Find the number of each type of worker that Brad should hire to maximize the number of packets produced.