

45x + 40 xm = (35)(40)(60) 32+22m 45000 (1000, 1000) optimal sol's Corner points are (0,0) (1000,0) (0,1200) (200,1200) (1000,1000) Objective function 7 = 327 + 24 xm $(0,0) \longrightarrow 2-0$ $(1000,0) \longrightarrow 2 = 32,000$ $(0,1200) \rightarrow 7 - 28,800$ $(800,1200) \rightarrow 7 = 54,400$ $(1000,1000) \rightarrow 2 = 56,000$ 7 2=56,000

0 The Optional Sol'n is
975 miniback packs [bleck Variables 1= No. of large shirts
M- No. of medium shirts
S- No. of small shirts b. G Models Objective function Max 7- 4201+360M+300S L= 4+ 12 + 13 M-M1+M2+M3 S=S1+52+53 Constraints: Capacity Constraint 4+M,+S, = 750 L2+M2+S2 4900 L3+M3+S3 4 450 Storage Constraint 204+15M1+126, 6 13000 2012+15M2+12S2 < 12000

2013+15 M3+12 M3 4 5000

Same Capicity percentage Constraint

900(4+m,+s,) -750(12+M2+s2) =0

450(12+m2+s2) - 900(13+M3+s3)-0

Non Negativity

 $L_{11}L_{21}l_{3} \ge 0$ $M_{17}M_{21}M_{3} \ge 0$ $S_{11}S_{21}S_{3} \ge 0$