Jandy: 0.2 x 20 = 4 min 4 60 = 30 min/km Sandy Terrain: 3km/h 4 50 = 20 min/km Smooth Terrain: 5km/h Time/hm = 4+3.6+15=22.6 min/km 4 6 = 12 min/km total time = 22.6×5=|13min Route 2: 7 km 10% Jandy: 0.4 x20=8min Time/hm = 8 +2.4 +12 = 22.4 min/hm total time = 22.4x7 = 156.8 min Route 3:6 km 40% Smooth 0.4 x 12 = 4.8 min Time/hm=10+4.8+3=17.8 min/hm total time = 17.8xb = 106.8 min

Route 1: 5 km

Problem 4.

Rocky Terrain: 2km/h

70% intact walls = -20min

Ly (D.3 ×15) + (0.7 × (-20)) = 4.5 - |4 = -9.5 min

Route | updated time:

Ly |13 - 9.5 = 103.5 min

Route 3 with bridge:

60% bridge damage = + 40 min

40 % bridge intact = no change

Ly (0.6 × 40) + (0.4 ×0) = 2.4 min

Route 3 updated time:

17 106.8+24 = 130.8 min Route 1 = 103.5 min → best option

Rout I with crater.

30% wall damage = + 15 min

Doute 2 = 166.8 min Route 3 = 130.8 min

3 - 130.8 min

Route 2: Satelite - not Rocky Adjusted sandy probability Adjusted Smooth probability Sandy > 2 x 20 = 13,33 min/km Smooth > 5 x 12 = 4 min/km time per hon = 13.73+4=17.33 min/lem total time = 12.33 × 7= 121.3 min What's the probability that the satelite tells us this? 1- P(rocky) = 1-6,4=60% Satelite tells us its rocky Route 2 -> 100% rocky 60 = 30 min/hm total time = 30x7=210min We would never wait for the satelite because Route! would be faster either way?