Part 4 O rocky = 2 km/h = 30 min/km sandy = 3 km/h = 20 min/km smooth = 5km/w = 12 min/km Route 1: (0.2 x 20)+ (0.3 x 12)+(0.5 x 30) = 4+3,6+15=22.6 x5=113 min Route 2: (0.4 x 20) + (0.2 x 12) + (0,4 x 30) = 8+2.4+12=22.4x7=156 8 min Route 3 = (0.5 × 20) + (0.4 × 12) + (0.1 × 30) = 10 + 4.8 + 3 = 17.8 x 6 = 10 6 8 mis route 3 is fastest 2 Route 1 = 113 - (20×0.7) + (15×0.3) 113-14+4.5 = 103.5 mil Route 2= 156, 8 min Route 3 = 106.8 + (0.6 × 40) + (0.4 × 0) 106.8 +24 = 130.8 mm route I us fastest with unese new deriations 2/3 1/3 (3) Route 2 not nocky sandy = 0.4, smooth = 0.2 = (0.6667x20)+(0.333x12)= 13.34+3.996=17.336×7=/121.352mm -(4) rocky = 40%, 60% not rocky 60% chance the patellite will tell us uto not rocky 99999 (5) up the satellite sells us it is very, we can use poute, instead because even if the satellite is wrong, route I as faster (uncluding the new estimates)

(6) Roule 2, rocky = 30 x7 = 210 min not rocky = 121.352 min Route 1 = 103. 5 min wait 17 min (with erater) wait 14 mu (w/o crater) ISTAT X DEC. TI = NAP 5 148 6A