

The should not wait for the satellite because the benefit of waiting is not faster than taking route 1 106.8 + 24 = 130.8 Route 1 is the fastest at 103.5 3. If Route 2 is not rocky what is the expected time? I fruit is not rocky then it is either sandy or smooth. Sandy: 0.4/0.4+0.23= 0.4/0.6 = 0.6667 Smooth: 0.2/0.4 + 0.2 = 0.2/0.6 = 0.333 10/10 time = (0.667 x 20) + (0.333 x 12) = 13,334 + 4 17.334 x 7 = 121.338 minutes The satellite confirms that Route 2 is not rocky, we would expect it to take 121.338 minutes 4. What is the probability that the satellite will tell us this? Route 2: rocky 40% Not rochy: 1 - 0.4 = 0.6 60% probability that will confirm Route 2 is not rocky 5. If the satellite confirms that Rouse 2 is rocking we can use the original time of 156.8 m inutes, since we also include rocky errains 6. Given this, now long should we wait for the satellite Route 2 is rocky = 0.4 We know that not rocky Roule 2 is not rocky = 0.6 travel time & 121,338 and rocky is 156.8 (0.6 x 121338) + (6.4 x 156.8) = 7268028 + 62.72 135.524 minutes