## Pilot Information for Students

## Chuck

Flight Number	Origination City	Departure Time	Destination City	Arrival Time	Flight Length
483	Seattle	7:00a.m.	San Francisco	9:00a.m.	2 hours
376	San Francisco	10:15a.m.	Phoenix	1:15p.m.	2 hours
812	Phoenix	1:45p.m.	San Francisco	2:45p.m.	2 hours
421	San Francisco	3:45p.m.	Seattle	5:45p.m.	2 hours

Leg 1: What is the likelihood that Chuck will depart Seattle in time to fly to Phoenix? (Be sure to explain your calculations.)

Leg 2: What is the likelihood that Chuck will depart San Francisco in time to fly back to San Francisco?

Leg 3: What is the likelihood that Chuck will depart Phoenix in time to fly to Seattle?

Fill in the table below with the results of your computations.

## Chuck

Flight Number	Origination City	Departure Time	Destination City	Arrival Time	Flight Length	Likelihood of On- Time Departure	Accumulated Likelihood
483	Seattle	7:00a.m.	San Francisco	9:00a.m.	2 hours		
376	San Francisco	10:15a.m.	Phoenix	1:15p.m.	2 hours		
812	Phoenix	1:45p.m.	San Francisco	2:45p.m.	2 hours		
421	San Francisco	3:45p.m.	Seattle	5:45p.m.	2 hours		

If a pilot has less than a 75% chance of arriving in time for the next flight, a standby pilot must be ready to fly. Will a delayed arrival or departure for Chuck reach a point at which a standby pilot must be scheduled?