## Activity 2 - MAKING A TRAIN SCHEDULE

1. **Figuring out Mileage** - Taking the scale of miles on the map, figure out how many miles it is between stations. Finish the chart below with the mileage.

Station	Wood	Snow	Grand	Glenwood	Buck	South
	Valley	Mountain	Junction		Village	Valley
Wood Valley	Х					
Snow Mt.		Х				
Grand Junction			Х			
Glenwood				Х		
Buck Village					Х	
South Valley						Х

**Figuring out Travel Time:** Train speeds vary between stations. Using the mph chart below, figure out how much time it takes to go between stations. Figure this by dividing the distance given in miles by the MPH in minutes (miles per hour divided by 60). Add on 2 extra minutes for each station stop and five extra minutes for stops in Wood Valley or South Valley. Complete the chart below.

Station	MPH	Departing	1.	Train	Total TIme
		Station Layover		Speeds	
Wood Valley-Snow Mt	90	5 minutes			
Snow MtGrand Jct	40	2 minutes			
Grand Junction-Glenwood	115	2 minutes			
Glenwood-Buck Village	65	2 minutes			
Buck Village-South Valley	65	2 minutes			
South Valley-Buck Village	65	5 minutes			
Buck Village-Glenwood	49	2 minutes			
Glenwood-Grand Junction	115	2 minutes			
Grand Jct – Snow Mountain	40	2 minutes			
Snow Mt – Wood Valley	90	2 minutes			

## 3. MAKING THE TRAIN SCHEDULE

Now make a daily schedule with 30 trains using the following criteria:

- A. There are two express trains, one eastbound and one westboundwith only two regional stops, Grand Junction and Glenwood.
- B. There are two express trains, one eastbound and one westboundthat travel between Grand Junction and South Valley with a stop in Glenwood.
- C. There are eight regional trains, four northbound and four southbound between Wood Valley and Grand Junction. Half of them stop in Snow Mt.
- D. There are sixteen local trains, eight in each direction running between South Valley and Wood Valley. They stop at all six stations on the route.
- E. There are two late night trains, one in each direction leaving after midnight between Wood Valley and Glenwood and stopping at all stations.

Fill in the chart below. The color codes give a hint by showing similar train routes.

Stations	Train	22	42	32	44	24	34	2	26	46	36	48	4	28	38	52
	Read Down															
Wood Valley	1															
Snow Mt.																
Grand Jct.																
Glenwood																
Buck Village																
South Valley	•															

## EASTBOUND - Wood Valley to South Valley

Stations	Train	31	41	21	43	33	1	23	35	3	45	25	47	37	27	51
	Read															
	Up															i
Wood Valley	<b></b>															
Snow Mt.																
Grand Jct.																
Glenwood																
Buck Village																
South Valley																