Answer 1 -
The Equivalence Class Partitions with Boundary Values look like the following (Note: $ and trailing zeroes are omitted to save space):

-∞ 0	0.01 2000	2000.01 7500	7500.01 14999.99	15000 25000	25000.01 29999.99	30000 ∞

There are 7 ECPs and 14BVs, means there should be 14 test cases. The test cases are below

	Inputs	**Expected Output**		
Test Case	**Current Balance**	**Interest Paid**	**Gift Card**	**Status**
Case 1	-$500.00	-$35.00	No	Low Balance
Case 2	$0.00	-$35.00	No	Low Balance
Case 3	$0.01	$0.00	No	Normal Balance
Case 4	$2,000.00	$43.00	No	Normal Balance
Case 5	$2,000.01	$47.00	No	Normal Balance
Case 6	$7,500.00	$176.25	No	Normal Balance
Case 7	$7,500.01	$191.25	No	Normal Balance
Case 8	$14,999.99	$382.49	No	Normal Balance
Case 9	$15,000.00	$442.50	No	Normal Balance
Case 10	$25,000.00	$737.50	No	Normal Balance
Case 11	$25,000.01	$787.50	No	Normal Balance
Case 12	$29,999.99	$944.99	No	Normal Balance
Case 13	$30,000.00	$975.00	Yes	Honored Customer
Case 14	$50,000.00	$1,625.00	Yes	Honored Customer

Answer 2 -
The significance for volume of people will be 1 and we have taken it as an integer.
We have only been given the average and the peak volume. We need to calculate the low volume. There are 7 hours of peak traffic and 17 hours of low volume.

A factor of 2.33 means the volume at peak hours is 3.33*500 = 1665. To calculate the low volume we use (500*12 - 1665*7) / 17 = 20 people/hour.

The significance of time is 1 second. The day starts at 12:00:00AM and goes up to 11:59:59PM the same day.

The Equivalence Class Partition with Boundary Values are as under -

12:00:00AM 4:59:59AM	5:00:00AM 8:59:59AM	9:00:00AM 2:59:59PM	3:00:00PM 5:59:59PM	6:00:00PM 11:59:59PM

There are 5 ECPs and 10BVs. There are 30 test cases as below-

	Input		**Expected Output**	
Test Case	**Time**	**Type Day**	**Passengers/Hr**	**Volume Type**
Case 1	12:00:00 AM	Weekday	20	Low
Case 2	04:59:59 AM	Weekday	20	Low
Case 3	05:00:00 AM	Weekday	1665	High
Case 4	08:59:59 AM	Weekday	1665	High
Case 5	09:00:00 AM	Weekday	20	Low
Case 6	02:59:59 PM	Weekday	20	Low
Case 7	03:00:00 PM	Weekday	1665	High
Case 8	05:59:59 PM	Weekday	1665	High
Case 9	06:00:00 PM	Weekday	20	Low
Case 10	11:59:59 AM	Weekday	20	Low
Case 11	12:00:00 AM	Weekend	16	Low
Case 12	04:59:59 AM	Weekend	16	Low
Case 13	05:00:00 AM	Weekend	1332	High

Case 14	08:59:59 AM	Weekend	1332	High
Case 15	09:00:00 AM	Weekend	16	Low
Case 16	02:59:59 PM	Weekend	16	Low
Case 17	03:00:00 PM	Weekend	1332	High
Case 18	05:59:59 PM	Weekend	1332	High
Case 19	06:00:00 PM	Weekend	16	Low
Case 20	11:59:59 AM	Weekend	16	Low
Case 21	12:00:00 AM	Holiday	73	Low
Case 22	04:59:59 AM	Holiday	73	Low
Case 23	05:00:00 AM	Holiday	5994	High
Case 24	08:59:59 AM	Holiday	5994	High
Case 25	09:00:00 AM	Holiday	73	Low
Case 26	02:59:59 PM	Holiday	73	Low
Case 27	03:00:00 PM	Holiday	5994	High
Case 28	05:59:59 PM	Holiday	5994	High
Case 29	06:00:00 PM	Holiday	73	Low
Case 30	11:59:59 AM	Holiday	73	Low

Answer 3 -
The Equivalence Class Partition of this problem with Boundary Values are as under -

500.0	100.1	100.0	75.1	75.0	50.1	50.0	25.1	25.0	0.0	-0.1	-∞

There are 6 ECPs and 12 BVs. There are 12 test cases as below -

	Input	**Expected Output**			
Test Case	**Distance is in feet**	**Red**	**Yellow**	**Green**	**Buzzer**
Case 1	500	off	off	off	off
Case 2	100.1	off	off	off	off
Case 3	100	on	off	off	off
Case 4	75.1	on	off	off	off
Case 5	75	on	on	off	off
Case 6	50.1	on	on	off	off
Case 7	50	on	on	on	off
Case 8	25.1	on	on	on	off
Case 9	25	on	on	on	on
Case 10	0.0	on	on	on	on
Case 11	-0.1	off	off	off	off
Case 12	-50	off	off	off	off

Answer 4 -

The Equivalence Class Partitions are as below -
All the values are in dollars, with values truncated to 2 decimal places without rounding

45000.01	54999.99	55000.00	∞

There are two ECPs and 4 BVs, and there are 4 test cases

	Inputs	**Expected Output**		
Test Case	**Current Balance**	**Final Balance**	**Gift Card**	**Status**
Case 1	$43583.53	$45000.00	No gift card	Ordinary
Case 2	$43583.54	$45,000.01	$100	Honored
Case 3	$53268.75	$54,999.99	$100	Honored
Case 4	$53268.76	$55,135.00	$135 has been credited to the account	Top