

will a flexible work schedule result in positive benefits for the both employer and employee/ Is a more rested employee, who spends less time commuting to and from work, likely to be more efficient and take off sick leave and personal leave? A report on the benefit of flexible work schedule looked at the records of  $n = 11$  employees who worked in a satellite office in a country health department in Illinois under a 4-day workweek schedule. Employees worked a conventional work week in year 1 and a 4-day work week in year 2. Some statistics for these employees are shown below

Empl	Personal leave		sick leave	
	year 2	year 1	year 2	year 1
1	26	33	30	37
2	18	37	61	45
3	24	20	59	56
4	19	26	2	9
5	17	1	79	92
6	34	2	63	65
7	19	13	71	21
8	18	22	83	62
9	9	22	35	26
10	36	13	81	73
11	26	18	79	21

1. A 4-day work week ensure that employees will have one more day that need not be spent at work. One possible result is a reduction in the average number of personal leave days taken by employees on a 4-day work schedule. Do the data indicate that this is the case? Use the p-value approach in testing to reach your conclusion
2. A 4-day work week Schedule might also have an effect on the average number of sick leave days employees takes. Should a directional alternative be used in this case . Why?
3. Construct a 95% confidence interval to estimate the average difference in days taken in for sick leave between these 2 years. What do you conclude about the difference between the number of sick leave days for these the two work schedules.

What is the advantages of the 4-day week schedules