

	A	B	C	D	E	F	G	H	I	J		
1	From the given data of daily expenditure below, test whether the average expenditure											
2	of a family is 1500 per day at 90% confidence level.											
3	1250	1400	1850	2000	2200	1750	1950	1900	1200	1000		
4												
5	Solution :- Here, we have											
6	1250	1400	1850	2000	2200	1750	1950	1900	1200	1000		
7		Sample size (n) =		10	=COUNT(A3:J3)							
8		Pop. Mean (μ) =		1500								
9	Sample Mean (\bar{X}) =		1650	=AVERAGE(A6:J6)								
10		Sample SD(S) =		404.83	=STDEV.S(A6:J6)							
11		$H_0: \mu \neq 1500$ i.e Av. Exp. Of a family is Rs. 1500										
12		$H_1: \mu \neq 1500$ i.e Av. Exp. Of a family is other than Rs. 1500										
13												
14												
15			S.E.(\bar{x})	128.02	=D10/SQRT(D7)							
16			$t_{cal} =$	1.1717	=(D9-D8)/D15							
17			CI (1- α)	0.9								
18			$\alpha =$	0.1	=1-D17							
19			d.f =	9	=D7-1							
20			$t_{tab} =$									
21			$t_{tab} =$	1.6449	=NORMSINV(1-D18/2)							
22	Decision :- Since, $t_{cal} < t_{tab}$, we accept H_0 , and reject H_1 , with the											
23	conclusion that Av. Exp. of a family is Rs. 1500.											
24												
25			Name: Swarnim Dahal									
26												
27												