

ANSWERS FOR PART I - TABLES

Torque Ft/Lb	Concrete Strength	Strength of Concrete Anchor			
		A	B	C	D
20	2000	2490.3 ○	1570.7 ○	1170.0 ●	2809.5 ○
30	2500	2967.7 ○	9629.5 ○	1570.7 ○	2030.0 ●
60	2000	4845.0 ○	3229.0 ●	4042.0 ○	2681.8 ○
90	3500	5577.0 ○	8942.0 ○	5814.0 ○	8507.7 ●
80	5000	3301.8 ○	8747.0 ○	8165.0 ●	19805.0 ○
20	4000	1771.0 ●	6714.0 ○	1975.0 ○	18408.0 ○
40	5500	9254.5 ○	6328.0 ○	2809.5 ●	16710.0 ○
40	3000	2490.3 ●	5653.0 ○	6352.0 ○	15590.0 ○
70	2500	4826.0 ●	4904.0 ○	16643.0 ○	11314.0 ○
130	5000	1570.7 ○	17221.0 ●	8122.3 ○	10175.0 ○
160	3000	9253.5 ○	8890.5 ○	14467.3 ○	16926.7 ●
150	5500	4999.0 ○	4075.0 ○	20421.0 ●	9084.0 ○
130	3500	14048.3 ○	15488.5 ●	17476.5 ○	5249.0 ○
100	5500	10534.7 ○	4037.0 ○	11591.8 ●	5952.5 ○
50	4000	3636.0 ●	5894.5 ○	13772.0 ○	8073.3 ○
20	5000	9755.3 ○	17020.7 ○	19750.0 ○	2272.0 ●
70	4500	6336.0	1670.8 ○	21163.5 ○	2768.5 ○
130	2000	2408.0 ●	9381.0 ●	20484.3 ○	3839.0 ○
150	4500	9506.8 ○	11170.0 ○	19079.0 ●	5733.5 ○
50	2500	18749.0 ○	2299.3 ●	6248.3 ○	11119.5 ○
30	3500	2313.5 ●	2021.5 ○	15001.0 ○	16965.5 ○
120	3000	21842.8 ○	2499.3 ○	2522.5 ○	13344.7 ●
140	2500	3999.0 ○	8196.7 ●	9879.5 ○	7497.7 ○
100	2500	6336.0 ○	12858.7 ○	10647.3 ○	7993.0 ●

ANSWERS FOR PART II GRAPHS

Electricity Use (KW)	Time of Day	Sports Arena	School	Office Complex	Apartment Building
30	830	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	1430	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>
45	1200	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	1200	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30	1000	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
75	900	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
10	700	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>

Time of Day	Location	Electricity Use in KW					
		Sports Arena	School	Office Complex	Apartment Building	Sports Arena	School
08:30	Apartment Building	8.0 <input type="radio"/>	5.0 <input checked="" type="radio"/>	2.0 <input type="radio"/>	60.0 <input type="radio"/>	15.0 <input type="radio"/>	
13:30	School	36.0 <input checked="" type="radio"/>	20.0 <input type="radio"/>	40.0 <input type="radio"/>	34.0 <input type="radio"/>	5.0 <input type="radio"/>	
10:00	Office Complex	54.0 <input type="radio"/>	50.0 <input type="radio"/>	75.0 <input checked="" type="radio"/>	18.0 <input type="radio"/>	45.0 <input type="radio"/>	
09:00	Apartment Building	8.0 <input type="radio"/>	15.0 <input type="radio"/>	7.0 <input type="radio"/>	10.0 <input type="radio"/>	5.0 <input checked="" type="radio"/>	
07:00	Sports Arena	65.0 <input checked="" type="radio"/>	10.0 <input type="radio"/>	60.0 <input type="radio"/>	20.0 <input type="radio"/>	30.0 <input type="radio"/>	
14:30	Office Complex	45.0 <input type="radio"/>	60.0 <input checked="" type="radio"/>	34.0 <input type="radio"/>	8.0 <input type="radio"/>	20.0 <input type="radio"/>	
12:00	School	5.0 <input type="radio"/>	54.0 <input type="radio"/>	18.0 <input type="radio"/>	65.0 <input type="radio"/>	40.0 <input checked="" type="radio"/>	