

PRACTICE TEST
for
TABLES AND GRAPHS
includes
PART I - TABLES
PART II - GRAPHS

THIS TEST MIMICS THE STYLE OF TEST FOR
TABLES AND GRAPHS USED BY THE PLANT
OPERATOR SELECTION SYSTEM (POSS).

PRACTICING WITH TABLES AND GRAPHS

The Plant Operator Selection System (POSS) includes tests for tables and graphs.

To help you prepare, a two-part practice test follows. Each part is designed so you may practice correctly interpreting tables and graphs within a suggested time limit.

Part I concerns reading tables that are similar in design to multiplication tables. The questions you answer will be multiple-choice and depend upon you accurately choosing answers (values or information) from the table. Carefully review the instructions before beginning this part, then set a timer for three (3) minutes. You should be able to answer all 24 questions within this time.

Part II checks your ability to interpret charts with graphed information. In this part you are also presented a choice of possible answers. Carefully review the instructions before beginning this part, then set a timer for two (2) minutes. You should be able to read the instructions and answer all 14 questions within this time.

Practicing taking these tests will familiarize you with the style of the real selection tests. To create conditions most like a real test:

- Practice by taking Part I and Part II tests, together one after the other
- Be sure to set a timer before beginning each part
- Do not look at the answers until you have completed all the test questions

PART I - TABLES

HOW TO TAKE THIS TEST

These instructions provide an example using the sample Table A, shown below:

Table A

Strength of Concrete Anchor (in LBS)

Torque Ft/Lb	Concrete Strength (in pounds per square inch (PSI))		
	2000	2500	3000
20	1170.3	1370.3	1570.7
30	1841.7	2030.2	2219.4
40	1975.5	2232.7	2490.3

Table A gives you information about how strong a concrete anchor will be (*note the title of the table*), measured in pounds, for certain conditions. The conditions are determined by the values in the first column on the left side which shows applied torque, and the top row which shows type of concrete that will receive the anchor.

For example, for a torque of 30 Ft/Lb and concrete strength of 2500 psi, read across from 30 and down from 2500. In this case the strength of the anchor would be 2030.2 LBS.

Torque Ft/Lb	Concrete Strength (in pounds per square inch (PSI))		
	2000	2500	3000
20	1170.3	1370.3	1570.7
30	1841.7	2030.2	2219.4

Now consider a sample problem that rearranges the information somewhat:

Torque Ft/Lb	Concrete Strength	Strength of Concrete Anchor			
		A	B	C	D
20.00	2000	1841.7 <input type="radio"/>	1570.7 <input type="radio"/>	1170.3 <input type="radio"/>	2490.3 <input type="radio"/>

The two left-hand columns are torque and concrete strength. In the row shown, the torque is 20 Ft/LB and the concrete strength is 2000. Refer back to the Table A and read across from 20 and down from 2000.

Torque Ft/Lb	Concrete Strength (in pounds per square inch (PSI))		
	2000	2500	3000
20	1170.3	1370.3	1570.7
30	1841.7	2030.2	2219.4

Now you see that 1170.3 is the correct strength for the anchor. So in this case, you completely fill the circle to the right of 1170.3 to show this is the correct answer:

Torque Ft/Lb	Concrete Strength	Strength of Concrete Anchor			
		A	B	C	D
20.00	2000	1841.7 <input type="radio"/>	1570.7 <input type="radio"/>	1170.3 <input checked="" type="radio"/>	2490.3 <input type="radio"/>

BEGIN TEST PART I

Table I is the reference information for the test questions built into the table on the next page. Completing the table on the next page requires looking up 24 sets of information from Table I. The suggested time limit to answer all 24 questions is three (3) minutes. To answer each test question, refer to Table I. Select your answer by filling the circle to the right of the answer you choose. Remember, speed AND accuracy are important. Check your work if you have time.

Table I**Strength of Concrete Anchor (in LBS)**

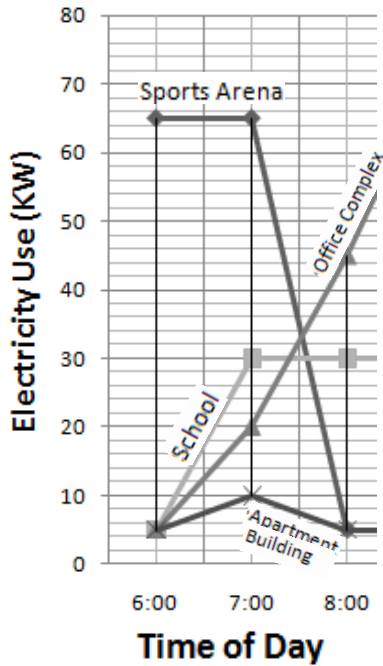
Torque Ft/Lb	Concrete Strength (in pounds per square inch)							
	2000	2500	3000	3500	4000	4500	5000	5500
20	1170.0	1370.3	1570.7	1670.8	1771.0	2021.5	2272.0	2522.5
30	1841.0	2030.0	2219.0	2313.5	2408.0	2499.3	2590.5	2681.8
40	1975.0	2232.7	2490.3	2619.2	2748.0	2768.5	2789.0	2809.5
50	1631.0	2299.3	2967.7	3301.8	3636.0	3839.0	4042.0	4245.0
60	3229.0	4037.0	4845.0	5249.0	5653.0	5733.5	5814.0	5894.5
70	4075.0	4826.0	5577.0	5952.5	6328.0	6336.0	6344.0	6352.0
80	3999.0	4904.0	5809.0	6261.5	6714.0	7439.5	8165.0	8890.5
90	6336.0	7204.7	8073.3	8507.7	8942.0	9254.5	9567.0	9879.5
100	6902.0	7993.0	9084.0	9629.5	10175.0	10647.3	11119.5	11591.8
110	4999.0	6248.3	7497.7	8122.3	8747.0	9000.3	9253.5	9506.8
120	8854.0	11099.3	13344.7	14467.3	15590.0	16643.0	17696.0	18749.0
130	9381.0	11824.0	14267.0	15488.5	16710.0	16965.5	17221.0	17476.5
140	6638.0	8196.7	9755.3	10534.7	11314.0	12543.0	13772.0	15001.0
150	10084.0	12858.7	15633.3	17020.7	18408.0	19079.0	19750.0	20421.0
160	11170.0	14048.3	16926.7	18365.8	19805.0	20484.3	21163.5	21842.8

Test Questions for Test Part I

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 ○

PART II - GRAPHS

HOW TO TAKE THIS TEST



Electricity Use (in KW) by Time of Day

- ◆ Sports Arena
- School
- ▲ Office Complex
- × Apartment Building

These instructions provide an example using the sample graph, above, titled "Electricity Use (in KW) by Time of Day." The use of electricity at different times of days differs depending on the line read on the graph. In this graph example, there are four possible locations:

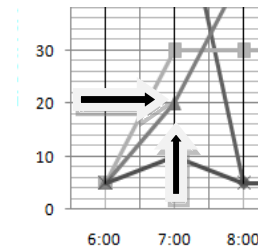
- Sports Arena shown by a line with diamonds marks
- School, shown by a line with square marks
- Office Complex, shown by a line with triangular marks
- Apartment Building, shown by a line with X marks

Each location has its own electricity use (in KW) indicated for various times of day. The test evaluates your ability to read the graph and select correct values for each of the two types of tables.

For the first table type, consider this example:

An electricity use of 20 KW and time of day of 07:00 match at the line with the triangle marks. Read across from 20 and up from 7:00. In this case the location that uses 20 KW at 7:00 is the office complex.

As you can see, the answer for office complex has been darkened.



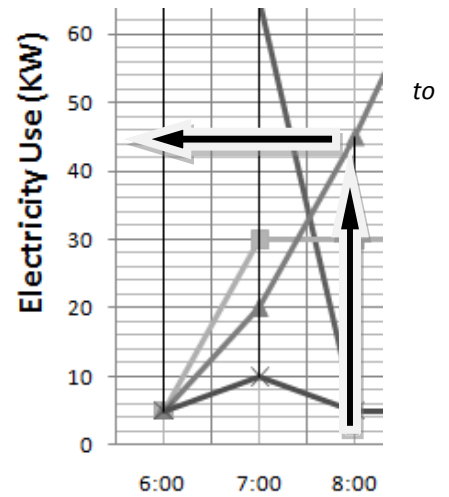
Electricity Use (KW)	Time of Day	Sports Arena	School	Office Complex	Apartment Building
20	0700	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>

For the second table type, consider this example that rearranges the information somewhat:

The two left-hand columns are time of day and location. In the row shown, the time of day is 8:00 and the location is the Office Complex. Refer back to the graph and read up from 8:00 until the line representing the Office Complex is intersected. From the point of intersection, follow the horizontal line to the left read the KW hours used. Note that each horizontal line marks 2 KW.

As you can see, the answer for 44.0 KW has been darkened.

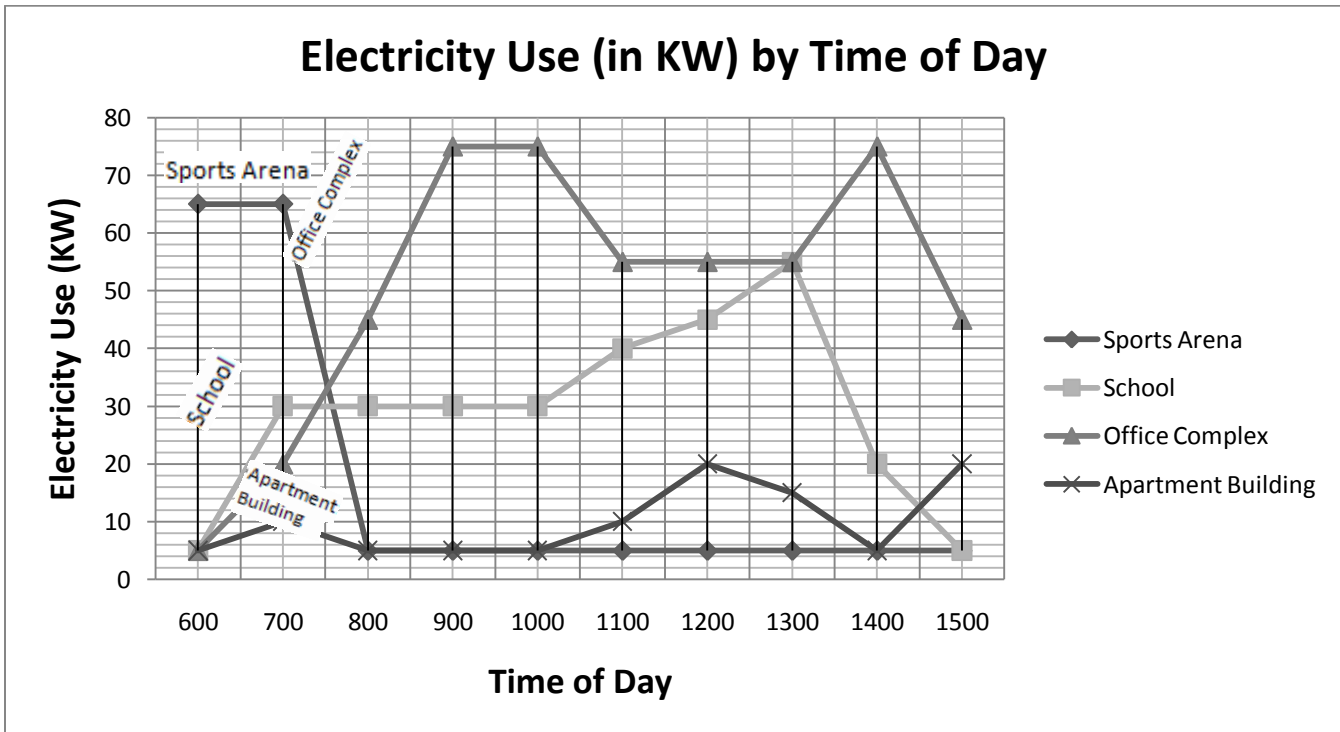
- ◆ Sports Arena
- School
- ▲ Office Complex
- × Apartment Building



Time of Day	Location	Electricity Use in KW					
		44.0 ●	5.0 ○	30.0 ○	60.0 ○	15.0 ○	
08:00	Office Complex	44.0 ●	5.0 ○	30.0 ○	60.0 ○	15.0 ○	

BEGIN TEST PART II

The graph shown is the reference information for the test questions built into the two tables that follow. Completing the tables on this page and the next requires looking up 14 sets of information from the graph. The suggested time limit to answer all 14 questions, on this page and the next, is two (2) minutes. To answer each test question, refer to this graph. Select your answer by filling the circle to the right of the answer you choose. Remember, speed AND accuracy are important. Check your work if you have time.



Electricity Use (KW)	Time of Day	Sports Arena	School	Office Complex	Apartment Building
30	8:30	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
15	14:30	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
45	12:00	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	12:00	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
30	10:00	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
75	9:00	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	7:00	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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

Answers with explanations begin on the next page.