

MgtOp 470—Business Modeling with Spreadsheets
TOPIC 2: SPREADSHEET ENGINEERING
Practice Problems

Use the following Excel screenshot to answer the questions below.

	A	B	C	D	E	F	G	H	I	J
1	Thompson Industries Monthly Supplier Report - April									
2										
3	SupplierName	SupNo	SupCat	Purchases	Change	Quality	On-Time	Returns	RejShip	NewSup
4	Maverick Supplies	6071	P	\$39,117	\$5,000	5	100%	0%	0	N
5	Cowboy Pete's Lumber	6894	P	\$25,554	\$400	5	90%	0%	0	N
6	ABC Metals	5054	S	\$13,051	\$13,051	3	0%	75%	2	Y
7	Perkins Plastics	5528	P	\$27,886	\$3,256	4	100%	3%	0	N
8	Everything Brass	4413	P	\$29,300	(\$4,658)	5	100%	0%	0	N
9	Jones Aluminum & Copper	5858	P	\$16,862	\$16,862	4	50%	5%	1	Y
10	Rick's Wrought Iron	9733	S	\$29,078	(\$3,121)	1	60%	80%	6	N
11	Penelope's Paper Products	4718	P	\$25,716	\$8,795	3	100%	12%	0	N
12	Anthony's Adhesives	9944	P	\$22,750	\$1,268	4	90%	4%	0	N
13	Columbus Manufacturing	1343	S	\$20,103	\$469	4	100%	0%	0	N
14	Smart Electronics, Inc.	4785	P	\$30,062	\$30,062	2	33%	50%	0	Y
15	Watson Woodworking	2730	S	\$32,589	\$471	5	25%	1%	0	N
16	Fred's Foam Molding	2949	S	\$47,886	\$47,886	5	100%	0.50%	0	Y
17	Inpenetrable Insulation, Inc.	1443	P	\$24,971	(\$6,895)	4	15%	4%	0	N
18	Suzu's Shipping Supplies	8039	P	\$23,851	\$1,269	5	50%	0%	0	N
19										
20										
21										
22										
23										
24										
25					<u>SupNo</u>	<u>Quality</u>				
26					4785					

1. What formula would go into cell F26 to provide the Quality rating for the supplier number that is entered into cell E26?
2. What value appears when the following formula is entered?
 =IF(OR(C14="S",F14<3),"Don't use!","Use!")
3. What value appears when the following formula is entered?
 =CONCATENATE(LEFT(A18,6),RIGHT(A18,8))
4. What value appears when the following formula is entered?
 =-F13*F14/F7^2+G12*50
5. What formula would divide the value in cell D11 by the value in cell F11 and present the answer rounded to the nearest 100?
6. What value appears when the following formula is entered?
 =SMALL(E4:E18,3)

7. What value appears when the following formula is entered?
`=AND(F6=3,G15<1)`
8. What value appears when the following formula is entered?
`=LEN(A6)-F6`
9. What formula would indicate the number of suppliers that are on time at least 60% of the time?
10. What value appears when the following formula is entered?
`=5*NOT(OR(C17="S",F4<=3))`