

Excel Formulas and Functions

What You Will Learn.....	1
Overview.....	2
Review of Naming Cells and Ranges	3
Mega Formulas	4
Exercise 1	7
Working with Text.....	8
Changing Text Case.....	8
Manipulating Text Strings	11
Joining Text Strings	11
Displaying Formatted Values	13
Using the TEXT Function.....	13
Removing Extra Spaces and Nonprinting Characters.....	14
Determining Character Length	14
Replacing Specific Text with Functions	15
Extracting Characters from a String	18
Extracting Characters from a String with Flash Fill	20
Exercise 2.....	22
Working with Dates and Times	23
Entering Dates.....	23
Date Calculation.....	25
Time-Related Functions (Optional)	27
Exercise 3.....	28
Information Functions.....	29
Returning Cell Information.....	29
IS Functions	31
Statistical Functions	32
The COUNTIF Function.....	32
The LARGE and SMALL Functions.....	34
Exercise 4.....	35
Lookup and Reference Functions	36
A Review of the VLOOKUP Function.....	36
A Lookup Using Form Controls to Choose the Lookup_value	37
The MATCH Function.....	41
The INDEX Function.....	41

Exercise 5.....	44
Arrays.....	46
Why Use Arrays.....	46
Simple Array Formulas.....	46
Multiple Array Formulas	47
Returning a Single Value with Array Formulas	48
Editing Array Formulas	49
Creating Array Constants.....	50
Horizontal Arrays.....	50
Vertical Arrays.....	50
Two-Dimensional Arrays.....	51
Another Array Example.....	51
Switch (Optional).....	52
Engineering Functions (Optional).....	53
Appendix A: Text Function Examples	54
Appendix B: Tips and Tricks.....	55
Appendix C: Solutions to Exercises	56