

Lookup Commands

The LOOKUP COMMAND allows you to copy data from a table and insert that data in other parts of the spreadsheet. It saves time re-entering the same data over and over. To look up information from a table you need to use the LOOKUP function.

There are two different types of LOOKUP functions, VLOOKUP for searching vertically in columns and HLOOKUP for searching horizontally across rows. We will use the VLOOKUP function in this chapter, but the HLOOKUP function works in the same way.

Interest Rate Calculations

Many banks offer varying degrees of interest depending on the amount deposited in the account. We can use the LOOKUP function to display the correct amount of interest on any entered deposit.

A Loading the Template

- 1 Load Microsoft Excel 2007 and click on the OPEN icon in the QUICK ACCESS TOOLBAR or in the OFFICE BUTTON.
- 2 Access the EXCEL 2007 SUPPORT FILES, open the CHAPTER 12 folder and load the INTEREST TABLE file, selecting YES to the READ-ONLY message.

C	1 1 19 - 1	9) e			1	iterest Ta
0	Home	insert Pa	gë Layout	Formulas	Data	Review
	Anal	- 1	1 - A	۸ ا = =	= >>-	1
R	este B	I U + 1	-113-	A- = =	畫種種	
-		and the second	10000	-	Allowing	
aut	eo data: Vali	FOIL		18.11	Hognment	
_	82	.	fx.	18500		
	A	B	3	U	E	F
1				INTEREST	TABLE	
2	BALANCE:	\$18,500.0	0			
3				BALANCE	RATE	
4	INTEREST			\$5,000.00	2.5%	
5	DUE:			\$10,000.00	3.0%	-
6		1		\$15,000.00	3.5%	
7				\$20,000,00	4.0%	
8				\$25,000.00	4.5%	
9				\$30,000,00	5.0%	
10						

3 In cell B2 enter the value: \$18500.00. This is the balance that we are going to calculate interest on.

B Calculating the Interest Due

We need to use the LOOKUP function to find the interest due on the balance. Microsoft Excel will look up the table and find the EQUAL OR CLOSEST LOWER value to the balance (\$15000).



NOTE: The formula says: look up the value stored in cell B2 then look at the values in the table, find the cell with the EQUAL or CLOSEST VALUE BELOW the B2 value, then display the adjacent value from the second column of the table: the value next to \$15000 (that is, 3.5%).

2 The LOOKUP function has three sections:



NOTE: i There should not be any spaces in the function formula.

ii If we had wanted the BALANCE (\$15000) displayed instead of the RATE, we would have entered:

= VLOOKUP(B2,D4:E9,1)

the 1 indicates the first column of the table.



NOTE: The error message indicates that Microsoft Excel cannot locate the closest lower value in COLUMN D. If possible it is always better to start a lookup table with zero.