

Difference between 3 and '3 in Excel

Integer 3	3
String 3	'3

String 3 + Integer 3 = 3

Lecture Excel Example

6 What was the average mean temperatures for the following years?	
2005	=AVERAGEIFS(G7:G114,A7:A114,B135)
2006	
2007	
2008	
2009	
2010	
2011	
2012	
2013	

To lock the cell when you copy and paste down:

<i>fx</i>	=AVERAGEIFS(\$G\$7:\$G\$114;\$A\$7:\$A\$114;B135)
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“Dollar” sign lock the cell: \$G\$7 means never change G and 7

MAX()

7 What was the most precipitation that occurred in a month?	
Answer:	=MAX(C7:C114)
	New Function Max

MIN()

8	What was the coldest average low?	
	Answer:	=MIN(F7:F114)

MATCH(LOOK_UP_VALUE, LOOKUP_ARRAY, MATCH_TYPE)

MATCH(): Finds the index of the look up value

10	What year did the coldest average low occur in?	
	Answer:	49 =MATCH(C149,F7:F114,0)

match_type : Optional. The number -1, 0, or 1. The match_type argument specifies how Excel matches lookup_value with values in lookup_array. The default value for this argument is 1.

Match_type Behavior

1 or omitted **MATCH** finds the largest value that is less than or equal to *lookup_value*. The values in the *lookup_array* argument must be placed in ascending order, for example: ...-2, -1, 0, 1, 2, ..., A-Z, FALSE, TRUE.

0 **MATCH** finds the first value that is exactly equal to *lookup_value*. The values in the *lookup_array* argument can be in any order.

-1 **MATCH** finds the smallest value that is greater than or equal to *lookup_value*. The values in the *lookup_array* argument must be placed in descending order, for example: TRUE, FALSE, Z-A, ...2, 1, 0, -1, -2, ..., and so on.

INDEX()

11	How many days did it snow in 2010?	
	Answer:	2009 =INDEX(A7:A114,C152,1)