

CS 105

Week 8, Part 2

=SUM(num1, [num2], ...)

=COUNT(value1, [value2], ...)

=AVERAGE(num1, [num2], ...)

***MATCH()** finds a value within an array, returns the location within the array.*

**=MATCH(lookup_value,
lookup_array,
[match_type])**

MATCH() finds a value within an array, returns the location within the array.

**=MATCH(lookup_value,
lookup_array,
0)**

INDEX() takes a location within an array and returns its value

**=INDEX(array,
row_num,
[column_num])**

```
=INDEX(array,  
        MATCH(lookup_value,  
              lookup_array,  
              0),  
        [column_num])
```


A) =SUM__()

B) =COUNT__()

C) =AVERAGE__()

D) =MIN() / =MAX()

E) =INDEX() / =MATCH()

When you copy and paste a formula, the formula will update based on the distance you copied/pasted it.

	A	B	C	D
1		=A1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3			=B3	
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3			=B3	
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3			=B3	
4				
5				
6				

	A	B	C	D
1		=A1		=C1
2		=A2		
3			=B3	
4				
5				
6				

*A \$ before a column or row name
will lock the column so it does
change when copied and pasted.*

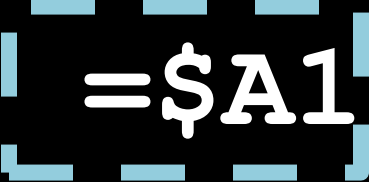
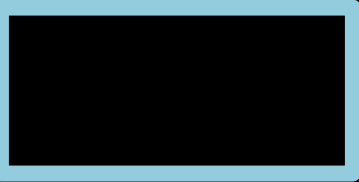
	A	B	C	D
1		=A1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3				
4				
5				
6				

	A	B	C	D
1		 =\$A1		
2		=\$A2		
3				
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3			=A3	
4				
5				
6				

	A	B	C	D
1		=A1		
2		=A2		
3			=A3	
4				
5				
6				

	A	B	C	D
1		= \$A1		
2		= \$A2		
3			= \$A3	
4				
5				
6				

	A	B	C	D
1		= \$A1		= \$A1
2		= \$A2		
3			= \$A3	
4				
5				
6				

	A	B	C	D
1		=A\$1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A\$1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A\$1		
2				
3				
4				
5				
6				

	A	B	C	D
1		=A\$1		
2		=A\$1		
3				
4				
5				
6				

	A	B	C	D
1		=A\$1		
2		=A\$1		
3				
4				
5				
6				

	A	B	C	D
1		=A\$1		
2		=A\$1		
3				
4				
5				
6				

	A	B	C	D
1		=A\$1		
2		=A\$1		
3			=B\$1	
4				
5				
6				

	A	B	C	D
1		=\$A\$1		
2				
3				
4				
5				
6				

***VLOOKUP() does an
INDEX/MATCH in just one
function, but has limitations***

**=VLOOKUP(lookup_value,
table_array,
col_index_number,
[range_lookup])**

***VLOOKUP() does an
INDEX/MATCH in just one
function, but has limitations***

**=VLOOKUP(lookup_value,
table_array,
col_index_number,
FALSE)**