

CS 105

Week 8

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

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

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

=SUMIF(range, criteria, [sum_range])

=COUNTIF(range, criteria)

=AVERAGEIF(range, criteria,
[average_range])

```
=SUMIFS(  
    sum_range,  
    criteria_range1, criteria1,  
    [criteria_range2], [criteria2],  
    ...  
)
```

```
=COUNTIFS(  
    criteria_range1, criteria1,  
    [criteria_range2], [criteria2],  
    ...  
)
```

```
=AVERAGEIFS(  
    sum_range,  
    criteria_range1, criteria1,  
    [criteria_range2], [criteria2],  
    ...  
)
```

A) =SUM__()

B) =COUNT__()

C) =AVERAGE__()

```
=SUMIFS(  
    sum_range,  
    criteria_range1, criteria1,  
    [criteria_range2], [criteria2],  
    ...  
)
```

```
=SUMIFS(  
    K2:K109,  
    criteria_range1, criteria1,  
    [criteria_range2], [criteria2],  
    ...  
)
```



```
=SUMIFS(  
    K2:K109,  
    A2:A109, criteria1,  
    [criteria_range2], [criteria2],  
    ...  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, 2009,  
    [criteria_range2], [criteria2],  
    ...  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, 2009  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, C118  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, C118,  
    [criteria_range2], [criteria2],  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, C122,  
    [criteria_range2], [criteria2],  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, C122,  
    F2:F109, [criteria2],  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, C122,  
    F2:F109, <C123  
)
```



```
=SUMIFS(  
    K2:K109,  
    A2:A109, C122,  
    F2:F109, <C123  
)
```

```
=SUMIFS(  
    K2:K109,  
    A2:A109, C122,  
    F2:F109, "<" & C123  
)
```


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

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

A) =SUM__()

B) =COUNT__()

C) =AVERAGE__()

D) =MIN()

E) =MAX()

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,

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()