

# Using a 3 Dimensional INDEX Function

The course module video demonstrates how to create a two dimensional INDEX function that will find an intersecting row and column in a range to return a value. It looks like this:

```
INDEX(ARRAY,ROW NUMBER, COLUMN NUMBER)
```

```
INDEX(Range_Name,2,3)
```

A three dimensional INDEX function helps to identify the correct table array in a group of similar tables before looking for the row and column intersection.

The formula looks like this: INDEX((reference),row\_num, column\_num, area\_num) where “reference” is a list of named ranges.

Notice the function has “area\_num” which points to the area to scan for matching row and column values. If area\_num =2 then the second array or named range in the reference section of the formula will be scanned by the algorithm.

```
INDEX(ARRAY,ARRAY,ARRAY),ROW NUMBER,COLUMN NUMBER,AREA NUMBER))
```

```
INDEX((RANGEX,RANGEY,RANGEZ),2,3,2)
```

*Note: The ranges in the reference section are assigned values base on what order they are added and not because they end in a 1, 2 or 3. In the above example, RangeY is assigned area\_num2. If entered as (Range2, Range3, Range1), Range2 is assigned place value 1 for area\_num because it appears first.*