Part D [16 points]

The tables below are PARTIAL views of a book of worksheets.

All ranges are named using the labels above them, which are **bold**. Labels are NOT included in the ranges they name. Names for additional ranges are indicated by Comment balloons. **CompositionsTable**

Sequenceld	ComposerId	Composition	Туре	Instrument	Key
1	1	Giselle	Ballet	Orchestra	CompositionLabels
2	2	Iberia	Suite	Orchestra	compositionidadeus
3	3	Brandenburg Conc. 6	Concerto	Orchestra	
4	3	Violin Concerto	Concerto	Violin	E Major
5	3	Violin Concerto	Concerto	Violin	A Minor
6	3	Brandenburg Conc. 2	Concerto	Orchestra	
7	3	Mass in B Minor	Choral		B Minor
8	3	Brandenburg Conc. 4	Concerto	Orchestra	
9	3	St. Matthew Passion	Choral		
10	3	Brandenburg Conc. 3	Concerto	Orchestra	
11	3	Brandenburg Conc. 1	Concerto	Orchestra	
12	3	Brandenburg Conc. 5	Concerto	Orchestra	
13	4	Violin Concerto	Concerto	Violin	
14	4	Piano Concerto 1	Concerto	Piano	
15	4	Piano Concerto 2	Concerto	Piano	G
16	4	Piano Concerto 3	Concerto	Piano	E
17	5	Symphony 4	Symphony	Orchestra	B Flat
18	5	Piano Concerto 4	Concerto	Piano	G Major
19	5	Piano Concerto 5	Concerto	Piano	E Flat Maj
20	5	Symphony 6	Symphony	Orchestra	F
21	5	Symphony 3	Symphony	Orchestra	E Flat
22	5	Symphony 5	Symphony	Orchestra	C Minor
23	5	Symphony 7	Symphony	Orchestra	A
24	5	Symphony 8	Symphony	Orchestra	F
25	5	Piano Concerto 1	Concerto	Piano	С
26	5	Sonata 23	Sonata	Piano	F Minor
27	5	Piano Concerto 3	Concerto	Piano	C Minor
28	5	Sonata 21	Sonata	Piano	С
29	5	Violin Concerto	Concerto	Violin	D

ComposersTable

ld	Composers	Initial	YOB	YODCountry
1	Adam	Α.	1803	1856 France
2	Albeniz	I.	1860	1909 Spain
3	Bach	J.S.	1685	1750 Germany
4	Bartok	В.	1881	1945 Hungary
5	Beethoven	L. van	1770	1827 Germany
6	Berlioz	Н.	1803	1869 France
7	Brahms	J.	1833	1897 Germany
8	Britten	В.	1913	1976 England
9	Bruch	M.	1838	1920 Germany
10	Chopin	F.	1810	1849 Poland

Part D [16 points]

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Search Composer	Composer_ID	Number_of_\	Vorks		WorksLabels
Work#	Composition	Туре	Instrument	Key	

When the user enters a composer's name on the **Search** page formulas produce the rest of the content.

Instrument Key
Drchestra
/iolin E Major
/iolin A Minor
Drchestra
B Minor
Drchestra
Drchestra
Drchestra
Drchestra

Write a formula for **Composer_ID**. [4] = <u>LOOKUP(Composer, Composer, Id)</u>

Write a formula for **Number_of_Works**. [3] = <u>COUNTIF(ComposerId, Composer_ID)</u>

The **Works#** column uses a set of Recurrence formulas that only display results when it is appropriate, that is, when there is a value in **Number_of_Works**. Write the recurring formula (in A6). [4] =<u>IF(A5 < Number_of_Works)</u>, <u>A5+1</u>, "")

All other content is provided by a single, but complex, formula. Most of it is shown below. Add the missing component. [5] (*Hint:* It calculates the row number for the INDEX function.) =INDEX(CompositionsTable,

,

<u>MATCH(Composer_ID, ComposerId) – Number_of_Works + Works</u> MATCH(WorksLabels, CompositionLabels, 0))