

Homework/Extension

Step 5: Two Way Tables

National Curriculum Objectives:

Mathematics Year 5: (5S1) [Complete, read and interpret information in tables, including timetables](#)

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)

Developing Match the statements to the correct table. All direct data retrieval.

Expected Match the statements to the correct table. Mostly direct data retrieval with some calculations.

Greater Depth Match the statements to the correct table. All multistep calculations including decimals with some interpretation and inference or prediction.

Questions 2, 5 and 8 (Varied Fluency)

Developing Use the table to answer the questions. All data complete with questions involving data retrieval.

Expected Use the table to answer the questions. Some data missing with questions involving some multistep calculations.

Greater Depth Use the table to answer the questions. Some data missing with questions involving multistep calculations with some interpretation and inference or prediction.

Questions 3, 6 and 9 (Reasoning and Problem Solving)

Developing Complete the table using the statements provided then answer the questions. Questions involving data retrieval.

Expected Complete the table using the statements provided then answer the questions. Questions involve some multistep calculations.

Greater Depth Complete the table using the statements provided then answer the questions. Some multistep calculations with some interpretation and inference or prediction.

More [Year 5 Statistics](#) resources.

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Two Way Tables

1. Match the statements to the correct table. Write A or B in the box.

A – Languages Studied by Girls in a High School

	French	German	Spanish
Year 10	27	51	37
Year 11	25	27	40

B – Languages Studied by Boys in a High School

	French	German	Spanish
Year 10	7	30	42
Year 11	5	27	45

A. Has 40 Spanish students in Year 11.

B. More German than Spanish students in Year 10.

C. German is the most popular choice in Year 10.



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2. Use the tables below to answer the questions.

Sales in a Bakery

	Snacks	Meals	Total
AM	256	234	490
PM	141	367	508
Total	397	601	998

Sales in a Supermarket

	Snacks	Meals	Total
AM	261	103	364
PM	250	365	615
Total	511	468	979

A. Where had the highest total sales?

B. How many meals did the bakery sell that day?



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3. Use the statements to complete the table about after school clubs, then answer the questions below.

- Each child picked 2 after school clubs.
- 3 children picked music and English.

A. How many children picked art and maths?

B. Which was the most popular combination?

	Computing	Art	Music
Maths	7	3	4
English	4	6	
Science	6	5	5



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Two Way Tables

4. Match the statements to the correct table. Write A or B in the box.

A – China's Medal Count for the Olympics

	Gold	Silver	Bronze
2012	38	31	22
2016	26	18	26

B – Britain's Medal Count for the Olympics

	Gold	Silver	Bronze
2012	29	17	19
2016	27	23	17

A. Has 17 medals of the same colour.

B. Total of 67 medals for that year's Olympics.

C. 8 more gold than silver medals.



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5. Use the tables below to answer the questions. Some information is missing.

Vehicles crossing New Bridge

	Car	Van	Lorry	Bus
AM	362			
PM	163	68	62	30
Total		153	112	

Vehicles crossing Grain Bridge

	Car	Van	Lorry	Bus
AM	295	62		12
PM	232			
Total			150	30

A. If a total of 501 vehicles cross Grain Bridge in the morning, how many lorries were there?

B. How many cars crossed New Bridge throughout the day?



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6. Use the statements to complete the table. Then answer the questions below.

- 347 people travel to work by car.
- 14 people walk to work, none of which are over 45.

Journey to Work in a Company by Age

	17-25	26-35	36-45	46-55
Car	25	50	112	
Van	7	78	15	12
Bike		10	25	13
Walk		5	3	

A. How many employees are there in the company aged under 26?

B. How many spaces for bikes need to be provided by the company?



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Two Way Tables

7. Match the statements to the correct table. Write A or B in the box.

Average Hours of Day Light – Tromsø, Norway

	Spring	Summer	Autumn	Winter
Daylight	14.5	19.5		0
Twilight	9.5	4.5	7.5	10.5
Night		0	6.5	13.5

Average Hours of Day Light – Yuma, USA

	Spring	Summer	Autumn	Winter
Daylight	11.5	14.5		10
Twilight	3	3	3	3
Night		6.5	10	11

A. Largest change in the number of daylight hours

B. Most likely to be dark by 15:45 in winter.

C. Solar panels could be used in winter.



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8. Use the tables below to answer the questions. Some information is missing.

Number of Languages Spoken by Place of Birth in Summer High School

	UK	Germany	France	Spain	total
1	374	12		8	
2	132	72	36	123	
3+		35	45	75	
total					946

Number of Languages Spoken by Place of Birth in Calder High School

	UK	Germany	France	Spain	total
1	651	32		13	
2	61	20	65	77	
3+		3	12	43	60
total			98		

A. How many more non-UK born students does Summer High have compared with Calder High?

B. Which school seems to be the most successful at teaching foreign languages? How many more pupils does it have speaking two or more languages?



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9. Use the statements to complete the table. Then answer the questions below.

- Algeria produces a total of 130.5GWh.
- Nicaragua produces 460.8 GWh more renewable energy than Jamaica.

Renewable Energy Production (GWh) by Country

	Hydro	Wind	Solar	total
Algeria	72	19.4		
Jamaica	18.7	90	13	
Nicaragua		429	26.8	582.5
Reunion		18.5	59.5	
total	281.8			977.1

A. Which country produced the most renewable energy? From which energy source is your TV mostly likely to be powered by in that country?

B. Most of these countries are near the equator. Which result do you find the most surprising? Why?



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Homework/Extension

Two Way Tables

Developing

1. **A = A; B = A; C = A**
2. **A = The bakery; B = 601**
3. **The missing value is 3. A = 3; B = maths and computing**

Expected

4. **A = B; B = B; C = A**
5. **A = 132; B = 525**

Vehicles crossing New Bridge

	Car	Van	Lorry	Bus
AM	362	85	50	26
PM	163	68	62	30
Total	525	153	112	56

Vehicles crossing Grain Bridge

	Car	Van	Lorry	Bus
AM	295	62	132	12
PM	232	53	18	18
Total	527	115	150	30

6. **A = 43; B = 53**

Journey to Work in a Company by Age

	17-25	26-35	36-45	46-55
Car	25	50	112	160
Van	7	78	15	12
Bike	5	10	25	13
Walk	6	5	3	0

Greater Depth

7. **A = A; B = A; C = B**
8. **A = 286; B = Summer High seems to be the best as although it has a smaller number of pupils, more of them speak three or more languages. Summer High has 530 pupils which speak 2 or more languages, whereas Calder High has 283. This is a difference of 247.**

Number of Languages Spoken by Place of Birth
in Summer High School

	UK	Germany	France	Spain	total
1	374	12	22	8	416
2	132	72	36	123	363
3+	12	35	45	75	167
total	518	119	103	206	946

Number of Languages Spoken by Place of Birth
in Calder High School

	UK	Germany	France	Spain	total
1	651	32	21	13	717
2	61	20	65	77	223
3+	2	3	12	43	60
total	714	55	98	133	1,000

9. **A = Nicaragua. It is most likely to be powered by energy produced by the wind. B = Accept any answer that reasons that with the countries being near the equator they would have a good level of sunshine. The fact that solar generates the least energy is surprising because of the abundant energy from the sun.**

Renewable Energy Production (GWh) by Country

	Hydro	Wind	Solar	total
Algeria	72	19.4	39.1	130.5
Jamaica	18.7	90	13	121.7
Nicaragua	126.7	429	26.8	582.5
Reunion	64.4	18.5	59.5	142.4
total	281.8	556.9	138.4	977.1