

# Varied Fluency

## Step 5: Two-Way Tables

### National Curriculum Objectives:

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

### Differentiation:

**Developing** Questions to support completing and interpreting two-way tables. Up to three sets of data displayed using whole numbers up to 1,000. All questions involve direct data retrieval.

**Expected** Questions to support completing and interpreting two-way tables. Up to four sets of data displayed using whole numbers up to 1,000. Questions involve mostly direct data retrieval with some multistep interpretation.

**Greater Depth** Questions to support completing and interpreting two-way tables. Up to four sets of data displayed using numbers up to 1,000, including decimals to one decimal place. All questions involve multistep interpretation including inference and prediction.

More [Year 5 Statistics](#) Resources.

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## Two-Way Tables

1a. This table shows the different types of desk that a manufacturer makes.

	Round	Square	Total
Oak	A	B	C
Maple	D	E	F
Total	G	H	I

Which letter shows:

A. The number of square oak desks that were made?

B. How many desks were manufactured altogether?



VF

## Two-Way Tables

1b. This table shows the lunches that children in Key Stage 1 have.

	Packed Lunch	School Dinner	Total
Year 1	A	B	C
Year 2	D	E	F
Total	G	H	I

Which letter shows:

A. The number of children who have a school dinner?

B. How many Year 2 children have a packed lunch?



VF

2a. This table shows the number of tickets that were sold for a theatre show.

	Fri	Sat	Total
Matinee	17	21	38
Evening	27	32	59
Total	44	53	97

A. How many tickets were sold on Friday in total?

B. How many tickets were sold altogether?



VF

2b. This table shows the sandwich sales in a shop.

	Hot	Cold	Total
With crisps	26	34	60
With fruit	11	21	32
Total	37	55	92

A. How many people bought a hot sandwich with fruit?

B. Which was the most popular meal?



VF

3a. Circle the option that would complete the table.

Different Types of Cards in a Card Shop

	Under £1	£1 or more	Total
Christmas	35	17	52
Birthday	33	9	
Total	68	26	94

41

42

44

VF

3b. Circle the option that would complete the table.

Number of Hours Worked by Staff

	Male	Female	Total
Under 20 hours	9	16	25
20 hours or more	24		60
Total	33	52	85

32

34

36

VF



## Two-Way Tables

4a. This table shows the different types of shelving that a manufacturer makes.

	Small	Medium	Large	Total
Oak	A	B	C	D
Pine	E	F	G	H
Maple	I	J	K	L
Total	M	N	O	P

Which letter shows:

- A. The number of large maple shelves that the manufacturer makes?  
 B. How many pine shelves are manufactured altogether?



VF

## Two-Way Tables

4b. This table shows the number of pets that children in an infant school have.

	None	1	2 +	Total
Reception	A	B	C	D
Year 1	E	F	G	H
Year 2	I	J	K	L
Total	M	N	O	P

Which letter shows:

- A. The total number of children who have no pets?  
 B. How many Year 1 children have one pet?



VF

5a. This table shows the number of tickets that were sold for a theme park.

	Fri	Sat	Sun	Total
Adult	84	164	94	342
Child	37	74	63	174
Conc.	26	34	25	85
Total	147	272	182	601

- A. How many adult tickets were sold altogether?  
 B. How many more child tickets were sold on Sunday than Friday?



VF

5b. This table shows the meal deal sales in a deli.

	Sandwich	Wrap	Salad	Total
Water	135	73	55	263
Fizzy drink	247	56	23	326
No drink	94	30	85	209
Total	476	159	163	798

- A. How many people bought a salad?  
 B. What was the difference between sales of sandwiches with fizzy drinks and without drinks?



VF

6a. This table shows the number of cars in a carpark.

Complete the table.

	AM	PM	Total
Black		65	117
Silver	12		31
Other	163	194	
Total	227	278	505



VF

6b. This table shows the hair colour of members of staff in a department store.

Complete the table.

	Male	Female	Total
Blonde	84		268
Brown	124	282	
Other	98	146	244
Total	306	612	



VF

## Two-Way Tables

7a. This table shows the different types of shirt made by a manufacturer.

	Red	Blue	Green	Total
X-Small	A	B	C	D
Small	E	F	G	H
Medium	I	J	K	L
Large	M	N	O	P
Total	Q	R	S	T

Using the letters, write the calculation for:  
 A. The total for red and blue medium shirts made.  
 B. The total for blue and green shirts made.



VF

## Two-Way Tables

7b. This table shows the pets that children in Key Stage 2 have.

	Cat	Dog	Other	Total
Year 3	A	B	C	D
Year 4	E	F	G	H
Year 5	I	J	K	L
Year 6	M	N	O	P
Total	Q	R	S	T

Using the letters, write the calculation for:  
 A. The total of dogs in Year 3, 4 and 5.  
 B. The total for cats and dogs in Year 6.



VF

8a. This table shows the percentages of the 8,932 tickets that were sold for a fayre.

	Thu	Fri	Sat	Sun	Total
Under 5	1.8	3.9	10.6	4.2	20.5
Child	5.2	7.5	19.5	4.0	36.2
Adult	5.3	8.2	20.5	9.3	43.3
Total	12.3	19.5	50.6	17.6	100

A. What was the percentage difference between Friday and Saturday totals?  
 B. What was the percentage of adult and child tickets sold?



VF

8b. This table shows the percentages of the number of fillings and side orders for 7,750 jacket potatoes sold in a café.

	None	1 filling	2 fillings	3 fillings	Total
No side	4.5	21.2	16.2	0.8	42.7
Crisps	2.3	9.5	21.2	0.9	33.9
Fruit	1.7	10.8	10.7	0.2	23.4
Total	8.5	41.5	48.1	1.9	100

A. What percentage of potatoes had more than 1 filling?  
 B. Which 2 meals is someone most likely to buy?



VF

9a. This table shows the average number of hours playing games in a month across different age groups. Complete the table.

	3-10	11-17	18-25	26+	Total
Chess	1.2	5.6	16.4	27.4	50.6
Cards	6.4	12.4			144.7
Computer	25.4	64.5	286.7	83.4	
Other	34.8	45.9		100.4	254.3
Total	67.8	128.4	432.3	281.1	909.6

According to the data, which age group is most likely to play computers?



VF

9b. This table shows the number of tickets sold for different films at a cinema. Complete the table.

	Bat Boy	Space Wars	Jim Band	Melted	Total
Mon	134	243	211	129	
Tues		211	102	354	900
Weds	124	355	228	101	808
Thurs	167	377			987
Total	658	1,186	796	772	3,412

According to the data, which film was the most popular across the week?



VF

## Varied Fluency Two-Way Tables

### Developing

1a. a) **B** b) **I**

2a. a) **44** b) **97**

3a. **42**

### Expected

4a. a) **K** b) **H**

5a. a) **342** b) **26**

6a.

	AM	PM	Total
Black	<b>52</b>	65	117
Silver	12	<b>19</b>	31
Other	163	194	<b>357</b>
Total	227	278	505

### Greater Depth

7a. a) **I + J** b) **R + S**

8a. a) **31.1%** b) **79.5%**

9a.

	3-10	11-17	18-25	26+	Total
Chess	1.2	5.6	16.4	27.4	50.6
Cards	6.4	12.4	<b>56</b>	<b>69.9</b>	144.7
Computer	25.4	64.5	286.7	83.4	<b>460</b>
Other	34.8	45.9	<b>73.2</b>	100.4	254.3
Total	67.8	128.4	432.3	281.1	909.6

**18-25 are most likely to play computers.**

## Varied Fluency Two-Way Tables

### Developing

1b. a) **H** b) **D**

2b. a) **11** b) **A cold sandwich with crisps**

3b. **36**

### Expected

4b. a) **M** b) **F**

5b. a) **163** b) **153**

6b.

	Male	Female	Total
Blonde	84	<b>184</b>	268
Brown	124	282	<b>406</b>
Other	98	146	244
Total	306	612	<b>918</b>

### Greater Depth

7b. ) **B + F + J** b) **M + N**

8b. a) **50%** b) **2 fillings and crisps as well as 1 filling and no side**

9b.

	Bat Boy	Space Wars	Jim Band	Melted	Total
Mon	134	243	211	129	<b>717</b>
Tues	<b>233</b>	211	102	354	900
Weds	124	355	228	101	808
Thurs	167	377	<b>255</b>	<b>188</b>	987
Total	658	1,186	796	772	3,412

**Space Wars was the most popular film across the week.**