

# JustMaths

## TWO WAY

## TABLES

Name: \_\_\_\_\_

Total Marks: \_\_\_\_\_

Q.	Max	Actual	RAG
1	4		
2	3		
3	3		
4	3		
5	3		
6	3		
7	3		
8	4		
9	4		
10	6		
11	3		

Q1. 80 Year 12 students each study one Science. The table shows some information about these students.

	Biology	Chemistry	Physics	Total
Female	18			47
Male			19	
Total		21	33	80

(a) Complete the table.

One of these students is picked at random.

(b) Write down the probability that the student is a girl who studies Physics.

(4 Marks)

Q2. Bob carried out a survey of 100 people who buy tea. He asked them about the tea they buy most. The two-way table gives some information about his results.

	Tea bags	Packet tea	Instant tea	Total
50 g	2	0	5	
100 g	35	20		60
200 g	15			
Total		25		100

Complete the two-way table.

(3 Marks)

Q3. 60 British students each visited one foreign country last week. The two-way table shows some information about these students.

	France	Germany	Spain	Total
Female			9	34
Male	15			
Total		25	18	60

Complete the two-way table.

(3 Marks)

Q4. 80 students each study one of three languages. The two-way table shows some information about these students.

	French	German	Spanish	Total
Female	15			39
Male		17		41
Total	31	28		80

(a) Complete the two-way table.

One of these students is to be picked at random.

(b) Write down the probability that the student picked studies French.

(3 Marks)

Q5. Three rock bands played at a music festival. The names of the bands were The Rebels, ATC and Wand. 100 teenagers were asked which band they had enjoyed most. The two-way table gives information about their replies. Complete the two-way table.

	The Rebels	ATC	Wand	Total
Male	11		15	32
Female		18		
Total	33			100

(3 Marks)

Q6. 200 adults were asked which one of English, Mathematics or Science they enjoyed most. The two-way table shows some information about their answers.

	English	Mathematics	Science	Total
Female	78	20		120
Male		22		80
Total		42	60	200

Complete the two-way table.

(3 Marks)

Q7.

	Boys	Girls	TOTAL
Liked coffee			
Did not like coffee			
TOTAL			

30 students were asked if they liked coffee. 20 of the students were girls. 6 boys liked coffee. 12 girls did **not** like coffee.

Use this information to complete the two way table.

(3 Marks)

Q8. Bob asked 100 adults which one type of music they enjoyed. They could choose Jazz or Rock or Classical or Folk music. The two-way table shows some information about their answers.

	Jazz	Rock	Classical	Folk	Total
Men	12		19	4	52
Women		23			
Total	21			11	100

- (a) Complete the two-way table.  
 (b) How many women did **not** choose Classical music?

(4 Marks)

Q9. 53 students attend an after school club and are able to choose from 3 activities: Football, Tennis or Running.

There are 24 boys.

22 students chose Football, of which 8 were girls.

8 boys chose tennis.

12 girls choose running.

a) How many students chose running?

b) A student is chosen at random. What is the probability that a boy who chooses running is picked?

(4 Marks)

Q10. 100 students take part in lunchtime activities at a school. They can do either Art, Music or Drama.

31 students do Art of which 16 are girls.

25 students do Music of which 13 are girls.

There are 43 boys altogether.

a) Find the probability that a student chosen at random is a boy who attends Drama club.

b) Find the probability that a student chosen at random is a girl who attends Drama club.

c) Write down the probability that a girl chosen at random attends Music club.

(6 Marks)

Q11.

Each child at a party can choose an ice cream. They can choose a flavour from vanilla, strawberry or chocolate. They can have their ice cream in a tub or in a cone. Jill wants to show how many tubs and how many cones she needs for each flavour of ice cream.

(a) Draw a two-way table Jill could use to show this information.

Eight children choose chocolate ice cream in a tub.

(b) Write the number 8 in the correct place in your two-way table.

(3 Marks)