

Name: _____

GCSE (1 – 9)

Two Way Tables

Instructions

- Use **black** ink or ball-point pen.
- Answer all Questions.
- Answer the Questions in the spaces provided
– *there may be more space than you need.*
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must **show all your working out.**

Information

- The marks for each Question are shown in brackets
– *use this as a guide as to how much time to spend on each Question.*

Advice

- Read each Question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every Question.
- Check your answers if you have time at the end

1 The two way table gives information about how 100 students travelled to school.

	Walk	Car	Other	Total
Boys	15			52
Girls		22	8	
Total			19	100

(a) Complete the two way table. (3)

One of the students is picked at random.

(b) Write down the probability they walk to school.

.....
(1)

(Total for question 1 is 4 marks)

2 The two way table gives information about the favourite sport of 150 students.

	Football	Rugby	Other	Total
Boys		17		73
Girls			31	
Total	77	21		

Complete the two way table.

(Total for question 2 is 3 marks)

3 The two way table gives information about the favourite subject of 200 students.

	Maths	English	Other	Total
Year 10			26	98
Year 11	47			
Total	88	41		

(a) Complete the two way table. (3)

One of the students is picked at random.

(b) Write down the probability they are a year 10 student whose favourite subject is maths.

.....
(1)

(Total for question 3 is 4 marks)

- 4 There are 170 students in year 7 at a school.
All of these students either walk to school, get the bus to school or cycle to school.

82 of the students are boys.
33 of the students get the bus to school.
19 of the 41 students that walk to school are boys.
56 girls cycle to school.

Complete the two way table.

	Walk	Bus	Cycle	Total
Boys				
Girls				
Total				

(Total for question 4 is 3 marks)

- 5 A football team played 38 games.
19 games were played at home and the rest were played away.

The team won a total of 21 games.
They drew 4 games away.
2 of the 10 games they lost were at home.

Complete the two way table.

	Won	Drawn	Lost	Total
Home				
Away				
Total				

(Total for question 5 is 3 marks)

6 100 students attended a revision lesson at the weekend.

Each student went to Maths or English or Science.

55 of these students attended on Saturday.

Over the weekend a total of 40 students went to Maths.

12 of the 27 students that went to Science went on Sunday.

10 students went to English on Saturday.

How many students went to the Maths revision lesson on Saturday?

.....
(Total for question 6 is 4 marks)

7 120 students are asked whether they like biology or chemistry or physics best.

52 of the students are in year 11, the rest are in year 10.

45 students like physics best.

20 of the year 11 students like biology best

16 of the 30 students who like chemistry best are in year 10.

Work out how many year 10 students like physics best.

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(Total for question 7 is 4 marks)

8 100 students in year 7 either study French or German or Spanish.

45 of the students are boys and the rest are girls.

12 boys study German.

15 boys and 17 girls study French.

A total of 30 students study Spanish.

Work out how many girls study Spanish.

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(Total for question 8 is 4 marks)

9 Two different schools, school A and school B, attended a conference.

12% of the attendees were teachers, the rest were students.

47% of the attendees were from school A.

48% of the attendees were **students** from school B.

One of the attendees is selected at random.

Find the probability that they are a teacher from school A.

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(Total for question 9 is 4 marks)

10 300 students are asked how they get to school.

All of the students either walk to school or get the bus to school.

58% of the students walk to school.

45% of the students are boys.

21% of the students are boys who get the bus to school.

Work out how many girls walk to school.

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(Total for question 10 is 4 marks)
