Name: SOLUTIONS

GCSE (1 - 9)

Two Way Tables

Buy me a coffee

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These questions are compiled from *released* Pearson Edexcel GCSE maths exam papers
They contain exam questions from up until the ***Summer 2023*** exam series
More recent exam papers do exist but are withheld for mock exams
As new exam papers are released these worksheets will gradually be updated
The ***most current*** version of these worksheets will always be available at: kennethstafford.co.uk

Question	Where the question appeared
1	Edexcel, GCSE, Autumn 2017, Paper 1F, Q12
2	Edexcel, GCSE, Summer 2019, Paper 1F, Q21
3	Edexcel, GCSE, Autumn 2019, Paper 3F, Q15
4	Edexcel, GCSE, Autumn 2020, Paper 1F, Q14
5	Edexcel, GCSE, November 2022, Paper 2F, Q23
6	Edexcel, GCSE, Summer 2022, Paper 2F, Q13
7	Edexcel, GCSE, Summer 2022, Paper 3F, Q7

1

Emma has 45 rabbits.

30 of the rabbits are male.
8 of the female rabbits have short hair.
12 of the rabbits with long hair are male.

(a) Use the information to complete the two-way table.

	Male	Female	Total
Long hair	12	7	19
Short hair	18	8	26
Total	30	15	45

(3)

One of Emma's rabbits is chosen at random.

(b) Write down the probability that this rabbit is a female with short hair.

$\frac{8}{45}$

(1)

(Total for Question 12 is 4 marks)

[Edexcel, GCSE, Autumn 2017, Paper 1F, Q12]

2

There are 40 students in a class.
Each student walks to school or cycles to school or gets the bus to school.

There are 22 girls in the class.
9 of the girls walk to school.
7 of the boys cycle to school.
6 of the 10 students who get the bus to school are boys.

Find the number of these students who walk to school.

	Walk	Cycle	Bus	Total
Girls	9	9	4	22
Boys	5	7	6	18
Total	14	16	10	40

14

(Total for Question 21 is 4 marks)

[Edexcel, GCSE, Summer 2019, Paper 1F, Q21]

3

There are 800 students at a school.
Each student has either a school dinner or a packed lunch.

31% of the students have packed lunches. 31% of 800 = 248

55% of the students are boys. 55% of 800 = 440

60% of the boys have school dinners. 60% of 440 = 264

How many girls have packed lunches?
You must show all your working.

	School dinner	Packed Lunch	Total
Girls	288	72	360
Boys	264	176	440
Total	552	248	800

72

(Total for Question 15 is 4 marks)

[Edexcel, GCSE, Autumn 2019, Paper 3F, Q15]

4

Ishmael asked 30 students at college to tell him the sport they each like the best from cricket or tennis or swimming.

11 of the 20 female students said swimming.
2 of the male students said tennis.
5 students said cricket.

The number of male students who said cricket was the same as the number of male students who said swimming.

Complete the two-way table.

	Cricket	Tennis	Swimming	Total
Male students	4	2	4	10
Female students	1	8	11	20
Total	5	10	15	30

(Total for Question 14 is 3 marks)

[Edexcel, GCSE, Autumn 2020, Paper 1F, Q14]

5

200 students chose one language to study.
Each student chose one language from French or Spanish or German.

Of the 200 students,

90 are boys and the rest of the students are girls
70 chose Spanish
60 of the 104 students who chose French are boys
18 girls chose German.

Work out how many boys chose Spanish.

	French	German	Spanish	Total
Boys	60	8	22	90
Girls	44	18	48	110
Total	104	26	70	200

22

(Total for Question 23 is 3 marks)

[Edexcel, GCSE, November 2022, Paper 2F, Q23]

6

Sophie works in a bed shop.
During the last three months she sold 198 beds.

59 beds were sold without a mattress.
45 beds were double beds.
17 of the single beds were sold without a mattress.
67 of the 83 king size beds were sold with a mattress.

Use this information to complete the two-way table.

	Single	Double	King size	Total
With mattress	53	19	67	139
Without mattress	17	26	16	59
Total	70	45	83	198

(Total for Question 13 is 3 marks)

[Edexcel, GCSE, Summer 2022, Paper 2F, Q13]

7

The table shows the total number of apples sold and the total number of oranges sold in a shop in each of three weeks.

	Week 1	Week 2	Week 3
Number of apples	86	75	92
Number of oranges	68	80	76

86 + 75 + 92 = 253

68 + 80 + 76 = 224

253 − 224 = 29

In total for the three weeks, more apples than oranges were sold.
How many more?

29

(Total for Question 7 is 3 marks)

[Edexcel, GCSE, Summer 2022, Paper 3F, Q7]