

GCSE Mathematics

F

Two-Way Tables

Foundation Tier | Grades 3-5

Total Marks	Time	Questions
36	36 min	20

Instructions:

- Do not use a calculator when you see: 
- Answer all questions in the spaces provided.
- Show all your working - marks are awarded for method as well as final answers.
- Cross through any work you do not want to be marked.
- Check your answers if you have time at the end.

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Edexcel-style questions

Q1 

Grade 3

Edexcel style

The two-way table shows the sport preferences of 40 students. Find the missing value.

	Football	Netball	Total
Boys	12		20
Girls	7	13	20
Total	19	21	40

Answer _____

teachably

[2 marks]

Q2 

Grade 3

Edexcel style

The two-way table shows the sport preferences of 40 students. How many boys prefer netball?

	Football	Netball	Total
Boys	12	8	20
Girls	7	13	20
Total	19	21	40

Answer _____

teachably

[1 mark]

Q3

Grade 4

Edexcel style

The two-way table shows the sport preferences of 40 students. A student is selected at random. Find the probability that they are a girl who prefers football.

	Football	Netball	Total
Boys	12	8	20
Girls	7	13	20
Total	19	21	40

Answer _____

teachably

[2 marks]

Q4

Grade 5

Edexcel style

The two-way table shows the sport preferences of 40 students. A student is selected at random from the boys. Find the probability that they prefer netball.

	Football	Netball	Total
Boys	12	8	20
Girls	7	13	20
Total	19	21	40

Answer _____

teachably

[2 marks]

Q5



Grade 4

Edexcel style

The two-way table shows whether 70 pets are vaccinated. Find the total number of pets.

	Vaccinated	Not vaccinated	Total
Cats	22	8	
Dogs	15	25	40
Total	37	33	

Answer _____

AQA-style questions

Q6

Grade 3

AQA style

The two-way table shows how 60 people travel to work. Find the missing value.

	Car	Bus	Total
Male	15		30
Female	10	20	30
Total	25	35	60

Answer _____

teachably

[2 marks]

Q7

Grade 3

AQA style

The two-way table shows how 60 people travel to work. How many females travel by bus?

	Car	Bus	Total
Male	15	15	30
Female	10	20	30
Total	25	35	60

Answer _____

teachably

[1 mark]

Q8

Grade 4

AQA style

The two-way table shows how 60 people travel to work. A person is selected at random. Find the probability that they are male and travel by car.

	Car	Bus	Total
Male	15	15	30
Female	10	20	30
Total	25	35	60

Answer _____

teachably

[2 marks]

Q9

Grade 5

AQA style

The two-way table shows how 60 people travel to work. A person is selected at random from those who travel by car. Find the probability that they are female.

	Car	Bus	Total
Male	15	15	30
Female	10	20	30
Total	25	35	60

Answer _____

teachably

[2 marks]

Q10

Grade 4

AQA style

The two-way table shows whether 70 households recycle. Find the total number of households.

	Urban	Rural	Total
Recycles	34	16	
Does not recycle	12	8	20
Total	46	24	

Answer _____

teachably

[2 marks]

OCR-style questions

Q11 

Grade 3

OCR style

The two-way table shows how 62 students travel to school. Find the missing value.

	Bus	Walk	Total
Year 10	18		32
Year 11	14	16	30
Total	32	30	62

Answer _____

teachably

[2 marks]

Q12 

Grade 3

OCR style

The two-way table shows how 62 students travel to school. How many Year 11 students walk to school?

	Bus	Walk	Total
Year 10	18	14	32
Year 11	14	16	30
Total	32	30	62

Answer _____

teachably

[1 mark]

Q13

Grade 4

OCR style

The two-way table shows how 62 students travel to school. A student is selected at random. Find the probability that they are in Year 11 and walk to school.

	Bus	Walk	Total
Year 10	18	14	32
Year 11	14	16	30
Total	32	30	62

Answer _____

teachably

[2 marks]

Q14

Grade 5

OCR style

The two-way table shows how 62 students travel to school. A student is selected at random from Year 10. Find the probability that they walk to school.

	Bus	Walk	Total
Year 10	18	14	32
Year 11	14	16	30
Total	32	30	62

Answer _____

teachably

[2 marks]

Q15

Grade 4

OCR style

The two-way table shows whether 75 candidates passed a driving test. Find the total number of candidates.

	Male	Female	Total
Passed	28	32	
Failed	9	6	15
Total	37	38	

Answer _____

teachably

[2 marks]

Teachably-style questions

Q16

Grade 3

Teachably style

The two-way table shows the handedness of 50 people. Find the missing value.

	Male	Female	Total
Left-handed	6		14
Right-handed	19	17	36
Total	25	25	50

Answer _____

teachably

[2 marks]

Q17

Grade 3

Teachably style

The two-way table shows the handedness of 50 people. How many right-handed females are there?

	Male	Female	Total
Left-handed	6	8	14
Right-handed	19	17	36
Total	25	25	50

Answer _____

teachably

[1 mark]

Q18

Grade 4

Teachably style

The two-way table shows the handedness of 50 people. A person is selected at random. Find the probability that they are left-handed and male.

	Male	Female	Total
Left-handed	6	8	14
Right-handed	19	17	36
Total	25	25	50

Answer _____

teachably

[2 marks]

Q19

Grade 5

Teachably style

The two-way table shows the handedness of 50 people. A person is selected at random from the females. Find the probability that they are left-handed.

	Male	Female	Total
Left-handed	6	8	14
Right-handed	19	17	36
Total	25	25	50

Answer _____

teachably

[2 marks]

Q20

Grade 4

Teachably style

The two-way table shows whether 95 people own a mobile phone. Find the total number of people.

	Under 16	16 or over	Total
Owens a phone	45	35	
No phone	5	10	15
Total	50	45	

Answer _____

teachably

[2 marks]

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