Two-Way Tables

ANSWERS

1 64 visitors at a farm open day chose a tractor ride or a pony ride.

(a) How many children chose the pony ride?

(b) How many visitors chose the tractor ride?

	Tractor ride	Pony ride	Total
Adults	18	9	27
Children	15	22	37
Total	33	31	64

(a) 22 (b) 33

2 A youth club has 48 members.
Each one plays football or netball.
Complete the two-way table.

	Football	Netball	Total
Boys	17	6	23
Girls	9	16	25
Total	26	22	48

23 − 17 = 6

3 A shop sold 80 phone cases.

(a) Complete the two-way table.

(b) How many large patterned cases were sold?

	Plain	Patterned	Total
Large	21	14	35
Small	19	26	45
Total	40	40	80

(b) 14

4 100 students chose their favourite season.

(a) Complete the two-way table.

(b) How many Year 8 students chose winter?

	Spring	Summer	Winter	Total
Year 7	12	25	11	48
Year 8	15	21	16	52
Total	27	46	27	100

(b) 16

5 A sports centre has 60 members.
Each plays squash or badminton.
26 are juniors. 11 juniors play squash.
25 members play squash altogether.

(a) Complete the two-way table.

(b) How many seniors play badminton?

	Squash	Badminton	Total
Juniors	11	15	26
Seniors	14	20	34
Total	25	35	60

(b) 20

6 A music school has 72 pupils.
Each learns piano or guitar.
40 pupils are girls. 18 girls learn guitar.
35 pupils learn guitar altogether.

(a) Complete the two-way table.

(b) How many boys learn piano?

	Piano	Guitar	Total
Girls	22	18	40
Boys	15	17	32
Total	37	35	72

(b) 15

7 120 guests at a wedding chose fish or chicken. 54 guests were men.
30 men chose fish. 71 guests chose chicken altogether.

(a) Draw and complete a two-way table.

(b) How many women chose fish?

	Fish	Chicken	Total
Men	30	24	54
Women	19	47	66
Total	49	71	120

(b) 19

8 Ben is completing this table about 90 theatre tickets. He was told 52 tickets altogether were for children, and wrote 52 in the evening child cell. Explain his mistake. How many evening tickets were for children?

	Child	Adult	Total
Matinee	34	16	50
Evening	~~52~~ 18	22	40
Total	52	38	90

52 is the child total

Answer 52 − 34 = 18

Two-Way Tables *further practice*

ANSWERS

9 A campsite took 85 bookings in July and August. 38 bookings were in July. 23 July bookings were for tents. 41 bookings altogether were for tents.

(a) Draw and complete a two-way table.
(b) How many August bookings were for caravans?

	Tent	Caravan	Total
July	23	15	38
August	18	29	47
Total	41	44	85

(b) 29

10 150 students chose art or music.

(a) Complete the two-way table.
(b) How many Year 11 students chose art?

	Art	Music	Total
Year 9	28	22	50
Year 10	19	27	46
Year 11	31	23	54
Total	78	72	150

(b) 31

11 A coffee van sold 120 hot drinks in one day.

(a) Complete the two-way table.
(b) How many more coffees were sold in the morning than in the afternoon?

	Tea	Coffee	Hot chocolate	Total
Morning	18	34	8	60
Afternoon	21	19	20	60
Total	39	53	28	120

(b) 34 − 19 = 15

12 A pet show had 64 entries. 29 were cats and the rest were dogs. 17 cats won a rosette. 22 dogs did not win a rosette.

(a) Complete the two-way table.
(b) How many entries won a rosette?

	Rosette	No rosette	Total
Cats	17	12	29
Dogs	13	22	35
Total	30	34	64

(b) 30

13 Nadia filled in this two-way table about 75 visitors to a museum. She has made one mistake. Find it and correct it.

	Audio guide	No guide	Total
Adults	16	29	45
Children	11	19	~~32~~ 30
Total	27	48	75

11 + 19 = 30

Answer 30, not 32

14 90 students chose their lunch. 40 are boys. 15 boys chose a hot meal and 12 chose a salad. 30 students chose a sandwich altogether. 20 girls chose a salad.

(a) Complete the two-way table.
(b) How many girls chose a hot meal?

	Hot meal	Sandwich	Salad	Total
Boys	15	13	12	40
Girls	13	17	20	50
Total	28	30	32	90

(b) 13

15 A club has 50 members. 22 are juniors. Lena started this two-way table. She says 25 juniors play tennis. Explain why she must be wrong.

	Tennis	Golf	Total
Juniors	25		22
Seniors			
Total			50

Answer 25 is more than 22

16 Omar says this table cannot be finished, because the first row has two gaps. Is he right? Explain.

	Small	Large	Total
Indoor	12	23	35
Outdoor	9	16	25
Total	21	39	60

No: the small column has one gap

Answer 21 − 9 = 12 first