Design and interpret two-way tables

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Maths

Design and interpret two-way tables

1. Complete the two-way table.

	Right-handed	Left-handed	Total
Children	31	7	
Adults			82
Total		18	

a) How many right-handed adults are there?

b) What is the ratio of children : adults in its simplest form?

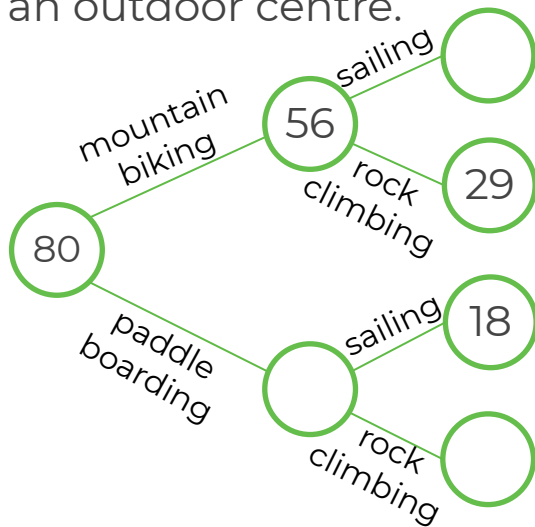2. 180 wedding guests were asked to choose a starter and main course. Complete the two-way table.

	Melon	Pâté	Total
Chicken	14		
Salmon		49	68
Nut Roast			13
Total	39		

A person is chosen at random. What is the probability they chose chicken?

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3. Use the frequency tree to complete a two-way table for the am and pm activities at an outdoor centre.

4. A car park contains 112 vehicles. 36 are vans and the rest are cars.
Of the 29 silver vehicles, 17 are cars.
a) Draw a two-way table for this data.
b) A car is picked at random, what is the probability it is not silver?

Answers

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1. Complete the two-way table.

	Right-handed	Left-handed	Total
Children	31	7	38
Adults	71	11	82
Total	102	18	120

a) How many right-handed adults are there? 71

b) What is the ratio of children : adults in its simplest form? 38 : 82
19 : 41

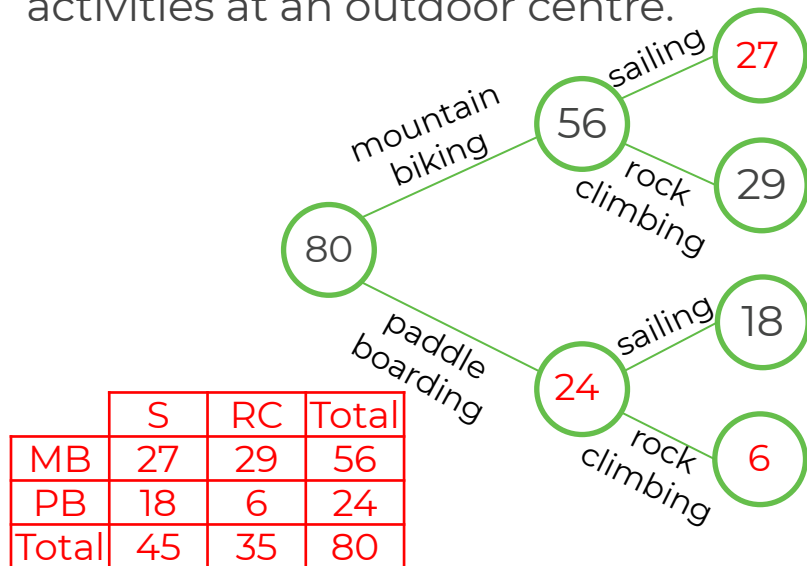2. 180 wedding guests were asked to choose a starter and main course. Complete the two-way table.

	Melon	Pâté	Total
Chicken	14	85	99
Salmon	19	49	68
Nut Roast	6	7	13
Total	39	141	180

A person is chosen at random. What is the probability they chose chicken? $\frac{99}{180}$

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3. Use the frequency tree to complete a two-way table for the am and pm activities at an outdoor centre.

	S	RC	Total
MB	27	29	56
PB	18	6	24
Total	45	35	80

4. A car park contains 112 vehicles. 36 are vans and the rest are cars.
Of the 29 silver vehicles, 17 are cars.
a) Draw a two-way table for this data.
b) A car is picked at random, what is the probability it is not silver? $\dfrac{59}{76}$

	Silver	Not silver	Total
Cars	17	59	76
Vans	12	24	36
Total	29	83	112