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Two Way Tables

Grade 3 topic · Foundation and Higher · Edexcel and AQA

How to use this pack
20 questions that get harder as you go. Foundation students: aim for Questions 1–15 (38 marks) and have a go at the rest. Higher students: complete all 20. Show your working on the lines and write your final answer on the answer line, then mark yourself with the answers at the back. Diagrams are not drawn accurately. Total: 58 marks.

Warm-up

1 Complete the two-way table by working out the missing number (marked ?). **[2 marks]**

	Tea	Coffee	Total
Adults	?	28	45
Children	24	21	45
Total	41	49	90

Answer _____

2 Complete the two-way table by working out the missing number (marked ?). **[2 marks]**

	Tea	Coffee	Total
Adults	8	?	21
Children	25	29	54
Total	33	42	75

Answer _____

3 Complete the two-way table by working out the missing number (marked ?). **[2 marks]**

	Tea	Coffee	Total
Adults	25	27	52
Children	?	19	38
Total	44	46	90

Answer _____

4 Complete the two-way table by working out the missing number (marked ?). **[2 marks]**

	Tea	Coffee	Total
Adults	29	29	58
Children	27	?	46
Total	56	48	104

Answer _____

5 Complete the two-way table by working out the missing number (marked ?). **[2 marks]**

	Tea	Coffee	Total
Adults	?	19	28
Children	27	30	57
Total	36	49	85

Answer _____

Core

6 Complete the two-way table by working out the missing number (marked ?). **[3 marks]**

	Tea	Coffee	Total
Adults	9	11	20
Children	14	26	40
Total	23	?	60

Answer _____

7 Complete the two-way table by working out the missing number (marked ?). **[3 marks]**

	Tea	Coffee	Total
Adults	27	26	?
Children	29	21	50
Total	56	47	103

Answer _____

8 Complete the two-way table by working out the missing number (marked ?). **[3 marks]**

	Tea	Coffee	Total
Adults	23	11	34
Children	9	12	?
Total	32	23	55

Answer _____

9 Complete the two-way table by working out the missing number (marked ?). **[3 marks]**

	Tea	Coffee	Total
Adults	12	9	21
Children	13	20	33
Total	?	29	54

Answer _____

10 Complete the two-way table by working out the missing number (marked ?). **[3 marks]**

	Tea	Coffee	Total
Adults	22	10	32
Children	18	15	33
Total	40	?	65

Answer _____

Stretch

11 The two-way table shows the drinks chosen by adults and children. How many people chose coffee? **[3 marks]**

	Tea	Coffee	Total
Adults	23	25	48
Children	29	12	41
Total	52	37	89

Answer _____

12 How many adults were asked? **[2 marks]**

	Tea	Coffee	Total
Adults	25	19	44
Children	23	22	45
Total	48	41	89

Answer _____

13 The two-way table shows the drinks chosen by adults and children. How many people chose coffee? **[3 marks]**

	Tea	Coffee	Total
Adults	9	26	35
Children	25	28	53
Total	34	54	88

Answer _____

14 How many adults were asked? **[2 marks]**

	Tea	Coffee	Total
Adults	10	18	28
Children	19	19	38
Total	29	37	66

Answer _____

15 The two-way table shows the drinks chosen by adults and children. How many people chose coffee? **[3 marks]**

	Tea	Coffee	Total
Adults	17	25	42
Children	30	21	51
Total	47	46	93

Answer _____

Challenge

16 One person is chosen at random. Work out the probability that they are a child who chose tea. Give your answer in simplest form. **[4 marks]**

	Tea	Coffee	Total
Adults	22	22	44
Children	12	21	33
Total	34	43	77

Answer _____

17 One adult is chosen at random. Work out the probability that they chose coffee. **[4 marks]**

	Tea	Coffee	Total
Adults	30	29	59
Children	18	13	31
Total	48	42	90

Answer _____

18 What percentage of the children chose coffee? Give your answer to 1 decimal place. **[4 marks]**

	Tea	Coffee	Total
Adults	18	19	37
Children	26	9	35
Total	44	28	72

Answer _____

19 Of the people who chose tea, what fraction were adults? Give your answer in simplest form. **[4 marks]**

	Tea	Coffee	Total
Adults	16	8	24
Children	30	26	56
Total	46	34	80

Answer _____

20 A person who chose coffee is chosen at random. Work out the probability that they are an adult. **[4 marks]**

	Tea	Coffee	Total
Adults	21	12	33
Children	12	13	25
Total	33	25	58

Answer _____