

6.4

Two Way

Tables

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Duncan spins the spinner again.

- (b) Complete the table to show all the possible outcomes for the two spins of the spinner. Six outcomes have been done for you.
 (3, 2) means 3 on the first spin and 2 on the second spin.

		Number on the second spin			
		2	3	5	7
Number on the first spin	2	(2, 2)		(2, 5)	
	3	(3, 2)			(3, 7)
	5				
	7		(7, 3)		(7, 7)

(2)

- (c) Find the probability that the number on the first spin is greater than the number on the second spin.

.....
 (2)

June 2018 1F

- 6 The two-way table shows some information about where 50 people went for their last holiday.

	UK	Africa	USA	Total
Male			2	23
Female	16	9		
Total		16		50

- (a) Complete the table.

(3)

- (b) What percentage of these 50 people were female **and** went on holiday in Africa?

..... %
 (2)

- 5 Valentino sells ice cream cones and ice cream tubs.
The ice cream flavours are chocolate, strawberry and vanilla.

On Sunday, 120 people each bought one ice cream from Valentino.
The two-way table shows some information about these ice creams.

	chocolate	strawberry	vanilla	Total
cone	16		22	78
tub		14		
Total	23			120

- (a) Complete the two-way table.

(3)

One of the 120 people is picked at random.

- (b) Find the probability that this person bought a vanilla ice cream cone.

.....
(2)

- 6 80 students studying sciences were asked which science subject they liked the best.

Some information about the results is shown in the two-way table.

	Biology	Chemistry	Physics	Total
Boys	25		7	
Girls		4		43
Total	31			80

- (a) Complete the two-way table.

(3)

- 8 Lin has 60 bricks.
He puts his 60 bricks into a bag.

Some information about the 60 bricks is shown in the two-way table.

	orange	blue	yellow	Total
small		7	14	
large	13			33
Total		23		60

- (a) Complete the two-way table.

June 2020 1F

- 8 Pavel asked 60 people at an airport where they came from.
All of the 60 people came from Europe or Africa or Asia.

9 people came from Africa.
14 females came from Europe.
3 males came from Africa.
16 of the 29 males came from Asia.

Using this information, complete the two-way table.

	Europe	Africa	Asia	Total
Male				
Female				
Total				

(Total for Question 8 is 4 marks)

- 8 The two-way table shows some information about the 60 noodle meals eaten in a noodle bar by each of 60 people last Friday.

		Type of noodle			Total
		Ramen	Soba	Udon	
Boiled	18			31	
Fried		12	7		
Total			15	60	

(a) Complete the two-way table.

(3)

One of the 60 people is selected at random.

(b) Write down the probability that this person ate Fried Udon noodles.

.....
(1)

- 15 150 students were each asked to name their favourite sport from hockey, rugby and football.

The two-way table gives information about the results.

		Hockey	Rugby	Football	Total
Year 10			42		78
Year 11	27				
Total	39	58			150

(a) Complete the two-way table.

(3)

(b) Work out what percentage of the 150 students are in year 10

.....%
(2)

- 8 The table shows information about the grades some Year 9 students gained in a biology test and in a physics test. The highest grade is **A** and the lowest grade is **D**.

		Biology			
		A	B	C	D
Physics	Grades				
	A	8	6	2	1
	B	3	5	4	0
	C	4	2	6	2
D	0	0	5	0	

- (a) How many students gained a grade **C** in biology?

.....
(2)

- (b) How many students gained the same grade in biology as they gained in physics?

.....
(2)

- (c) How many students gained a higher grade in biology than they gained in physics?

.....
(2)

- 6 Bohai works in a shop that sells mobile phones.
Last week he sold one mobile phone to each of 300 customers.

The incomplete two-way table shows some information about these mobile phones.

	32 GB	64 GB	128 GB	Total
type A	75		83	195
type B		29		
Total	127			300

- (a) Complete the two-way table.

(3)

- 8 The two-way table shows some information about the desserts chosen at lunch yesterday by the 80 students from Year 5 and Year 6.

Each student chose one dessert from apple pie or fruit or ice cream.

	apple pie	fruit	ice cream	Total
Year 5	22	6		
Year 6			2	44
Total	56			80

- (a) Complete the two-way table.

(3)

- (b) What fraction of these 80 students were in Year 5 **and** chose apple pie?
Give your answer in its simplest form.

.....
(2)

- 11 180 passengers travelled either to Seoul or to Tokyo.
They travelled either business class or economy class.

Of these 180 passengers

- 51 travelled business class to Seoul
- 69 travelled economy class to Tokyo
- 86 in total travelled business class

Use this information to complete the two-way table.

	Seoul	Tokyo	Total
Business class			
Economy class			
Total			

(Total for Question 11 is 3 marks)

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Of these 180 passengers

- 51 travelled business class to Seoul
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Use this information to complete the two-way table.

	Seoul	Tokyo	Total
Business class			
Economy class			
Total			

(Total for Question 11 is 3 marks)