Two-Way Tables

- 1. In a survey on the popularity of visiting France and Holland, a sample of 100 Danish adults were asked for their holiday destinations last summer. In June 6 people went to France, 18 went to Holland and 5 went elsewhere. In July 10 people went to France, 19 went to Holland and 2 went elsewhere. In August 15 people went to France, 15 people went to Holland and 10 went elsewhere.
- a) Complete the two-way table below for the data above.

	FRANCE	HOLLAND	ELSEWHERE	TOTAL
JUNE				
JULY				
AUGUST				
TOTAL				

- b) How many people went on holiday in June?
- c) What percentage of those surveyed holidayed in Holland?
- d) A person is selected at random. What is the probability they went on holiday in August to France?
- 2. Data on the number of people who passed or failed their driving test at the first time is shown below.

	MALE	FEMALE	TOTAL
PASSED		14	
FAILED	8		
TOTAL	25		45

- a) Complete the two-way table above.
- b) How many people failed their test on their first attempt?
- c) One driver is selected at random. What is the probability they are a female who failed her test?
- d) Do a greater proportion of males or females pass their test at the first attempt? Explain.
- 3. Data on the performance of two rival train companies is shown below.

	On Time	Early	Late	TOTAL
Virgin Trains			29	250
South West Trains	174	6		
TOTAL	384		49	

- a) Complete the two-way table above.
- b) What percentage of each train company's trains ran on time?
- c) Did a higher percentage of Virgin trains arrive late? Justify your answer.
- d) Given this data, in the next 5000 arrivals of South West Trains, how many would you expect to arrive early?