

Question 10

(8 marks)

Sales of new motor vehicles in Australia, December 2016

		Passenger vehicles	Sports utility vehicles	Other vehicles	Total
Western Australia	Number of vehicles	3093	3087	1846	8026
	Percentage of vehicles	38.5%	38.5%	23.0%	100.0%
Victoria	Number of vehicles	11985	9575	A	27065
	Percentage of vehicles	B	35.4%	20.3%	100.0%
Australian Capital Territory	Number of vehicles	875	585	212	1672
	Percentage of vehicles	52.3%	35.0%	12.7%	100.0%
New South Wales	Number of vehicles	15005	11788	6839	33632
	Percentage of vehicles	44.6%	35.0%	20.3%	100.0%
Queensland	Number of vehicles	7668	6822	4762	19252
	Percentage of vehicles	39.8%	35.4%	24.7%	100.0%
South Australia	Number of vehicles	2720	2197	1547	6464
	Percentage of vehicles	42.1%	34.0%	23.9%	100.0%
Tasmania	Number of vehicles	795	648	475	1918
	Percentage of vehicles	41.4%	33.8%	24.8%	100.0%
Northern Territory	Number of vehicles	244	234	256	734
	Percentage of vehicles	33.2%	31.9%	34.9%	100.0%
Australia (Total)	Number of vehicles	42385	34936	21442	98763
	Percentage of vehicles	42.9%	35.4%	21.7%	100.0%

Note: As percentages have been rounded correctly to one decimal place, totals of percentages may not add to exactly 100%.

Use the information in the table to answer the following questions:

- (a) Determine the values of **A** and **B** for the Victorian data. (2 marks)
- (b) Compare the percentage of the total new vehicle sales in Western Australia with those in South Australia. (3 marks)
- (c) Describe the association between the number of sales of new passenger vehicles and new sports utility vehicles in Australia. (1 mark)

- (d) Compare and comment on the percentage sales of vehicles in the Northern Territory with those in other States/Territories. (2 marks)