

Question 11

(10 marks)

The data in the table below, taken from those surveyed by the Australian Bureau of Statistics, show estimates for the number of persons 15 years and over who participated in sport and physical recreation in Western Australia, Tasmania and Victoria.

Participation in Sport and Physical Recreation, 2013–14

Persons Participating								
Western Australia	15–17 years	18–24 years	25–34 years	35–44 years	45–54 years	55–64 years	65 years+	Total
Males ('000)	43.3	80.9	149.1	113.7	116.6	85.6	74.0	663.2
% of males	71.6	67.6	70.9	66.4	68.2	63.8	51.4	65.6
Females ('000)	30.3	84.3	131.8	111.4	107.8	82.8	76.5	<i>A</i>
% of females	61.6	70.6	67.3	61.5	64.2	60.7	48.1	61.9
Total ('000)	73.6	165.2	280.9	<i>B</i>	224.4	168.4	150.5	1288.1
Tasmania	15–17 years	18–24 years	25–34 years	35–44 years	45–54 years	55–64 years	65 years+	Total
Males ('000)	7.6	16.5	23.2	23.6	25.4	19.5	23.5	139.3
% of males	73.4	71.4	81.3	77.7	72.7	55.7	57.4	68.5
Females ('000)	7.8	14.1	22.0	22.3	27.2	22.0	20.7	136.1
% of females	79.0	69.0	74.3	70.0	74.3	62.9	46.7	65.5
Total ('000)	15.4	30.6	45.2	45.9	52.6	41.5	44.2	275.4
Victoria	15–17 years	18–24 years	25–34 years	35–44 years	45–54 years	55–64 years	65 years+	Total
Males ('000)	74.5	202.3	267.9	268.7	218.2	192.6	164.1	1388.3
% of males	69.4	65.1	62.4	67.9	59.7	60.1	44.0	61.7
Females ('000)	79.9	159.7	276.3	296.7	240.5	184.6	211.9	1449.6
% of females	68.4	62.5	63.7	71.9	62.6	55.8	49.8	61.4
Total ('000)	154.4	362.0	544.2	565.4	458.7	377.2	376.0	2837.9

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

(a) Determine the values of A and B for the Western Australian data.

(2 marks)

- (b) Which State, age and gender category had the highest rate of participation in sport and physical recreation? (3 marks)
- (c) Which State had a higher percentage of females than males participating in sport and physical recreation in the *35–44 years* category? (1 mark)
- (d) Compare and comment on the participation rates in the *55–64 years* category with those in the younger age groups. (2 marks)
- (e) Determine the total number of females in Victoria who were surveyed. (2 marks)