3. A group of 200 adults were asked whether they read cooking magazines, travel magazines or sport magazines.
Their replies showed that

- 29 read only cooking magazines
- 33 read only travel magazines
- 42 read only sport magazines
- 17 read cooking magazines and sport magazines but **not** travel magazines
- 11 read travel magazines and sport magazines but **not** cooking magazines
- 22 read cooking magazines and travel magazines but **not** sport magazines
- 32 **do not** read cooking magazines, travel magazines or sport magazines

(a) Using this information, complete the Venn diagram on page 11

(3)

One of these adults was chosen at random.

(b) Find the probability that this adult,

(i) reads cooking magazines and travel magazines and sport magazines,

(1)

(ii) does **not** read cooking magazines.

(2)

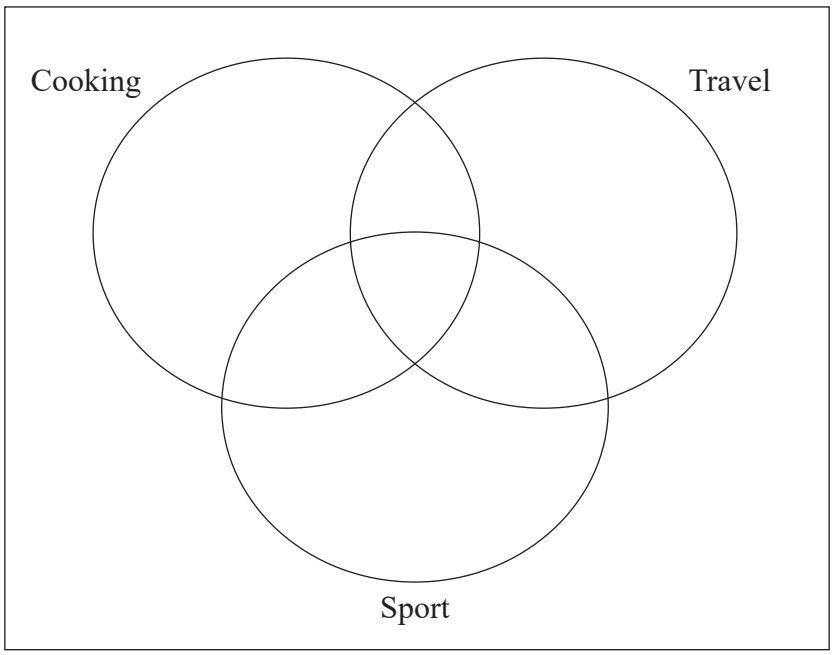
Given that this adult reads travel magazines,

(c) find the probability that this adult also reads sport magazines.

(2)

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Question 3 continued



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Question 3 continued

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Question 3 continued

(Total for Question 3 is 8 marks)