

Answer ALL questions.

Write your answers in the spaces provided.

You must write down all the stages in your working.

- 1 $\mathcal{E} = \{\text{even numbers between 1 and 25}\}$
 $A = \{2, 8, 10, 14\}$
 $B = \{6, 8, 20\}$
 $C = \{8, 18, 20, 22\}$

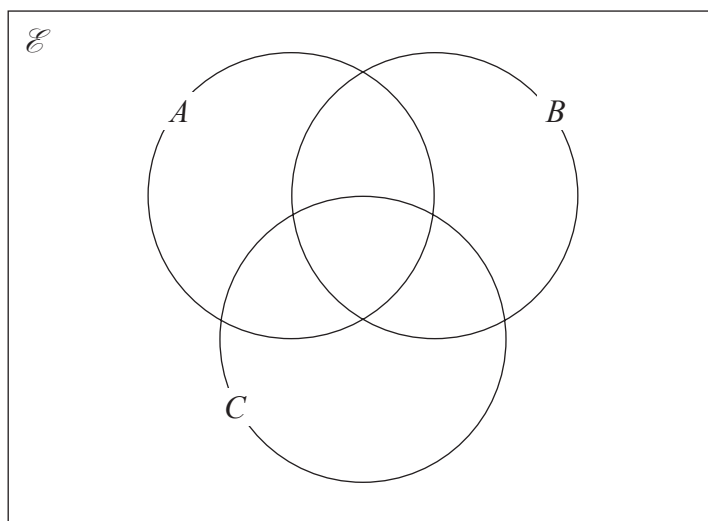


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- (a) Complete the Venn diagram for this information.



(4)

A number is chosen at random from \mathcal{E} .

- (b) Find the probability that the number is a member of $A \cap B$.

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(2)

(Total for Question 1 is 6 marks)

