

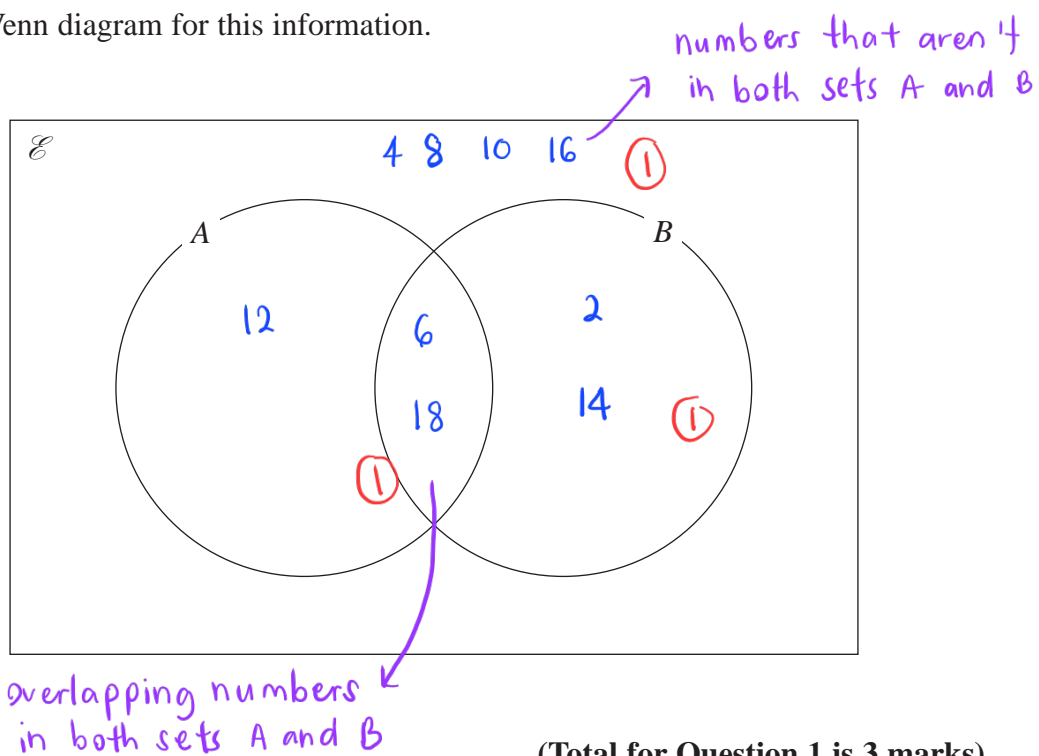
1 $\mathcal{E} = \{\text{even numbers less than 19}\}$

$$A = \{6, 12, 18\}$$

$$B = \{2, 6, 14, 18\}$$

list down even numbers < 19 :
 $\{2, 4, 6, 8, 10, 12, 14, 16, 18\}$

Complete the Venn diagram for this information.



(Total for Question 1 is 3 marks)

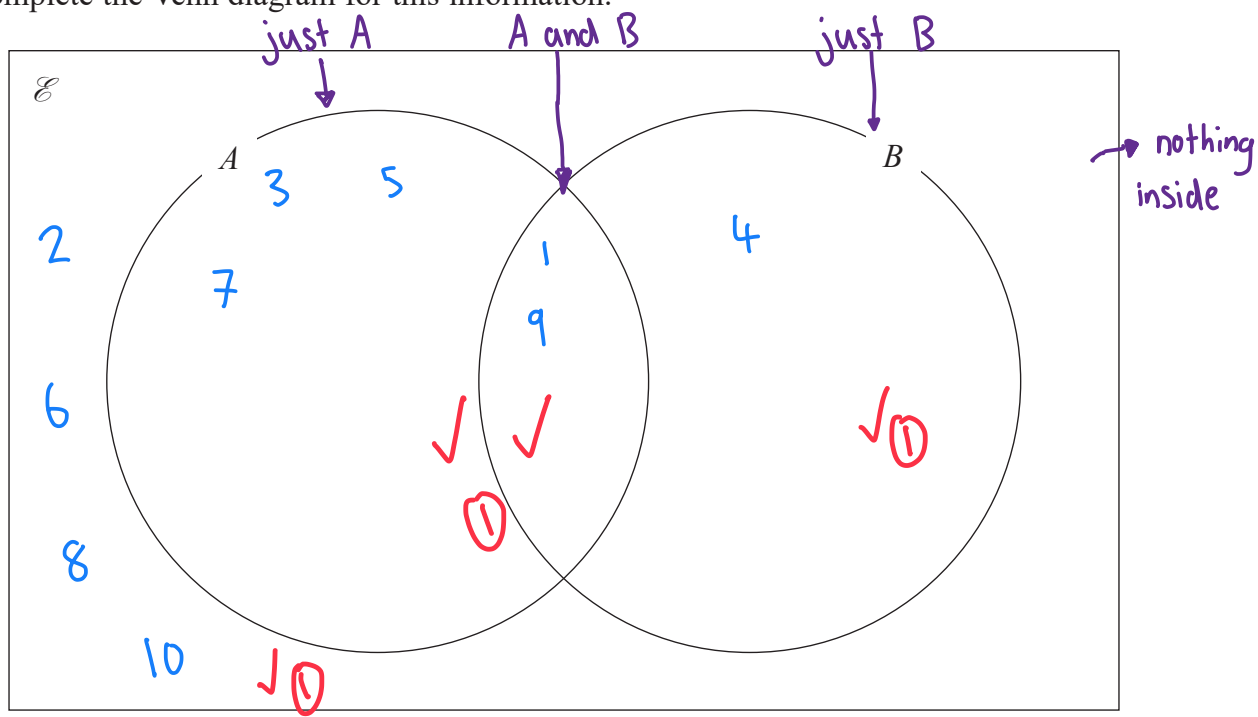
2 $\mathcal{E} = \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$

$A = \{\text{odd numbers}\}$

$B = \{\text{square numbers}\}$

$\rightarrow \{1, 3, 5, 7, 9\} \rightarrow$ there's no
 $\{1, 4, 9\} \rightarrow 2, 6, 8, 10$

(a) Complete the Venn diagram for this information.

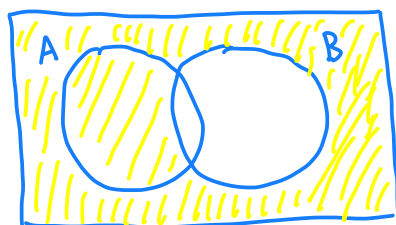


(3)

A number is chosen at random from the universal set \mathcal{E}

(b) Find the probability that this number is in the set B'

B' means not B (yellow area) \checkmark 1



$\frac{7 \text{ numbers outside B circle}}{10 \text{ total numbers}}$

$\frac{7}{10}$ \checkmark 1

(2)

(Total for Question 2 is 5 marks)