

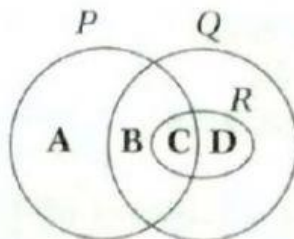
MODUL MATEMATIK KSSM (KERTAS 1)

TINGKATAN 4

TOPIK: OPERASI ATAS SET

- 1 Given set $P = \{4, 5, 6, 8\}$ and set $Q = \{2, 3, 5, 6, 9\}$. The elements of set $P \cap Q$ are
*Diberi set $P = \{4, 5, 6, 8\}$ dan set $Q = \{2, 3, 5, 6, 9\}$.
Unsur bagi set $P \cap Q$ ialah*
- A $\{5, 6\}$
 - B $\{4, 5, 6\}$
 - C $\{4, 5, 6, 7, 8\}$
 - D $\{2, 3, 4, 5, 6, 8, 9\}$

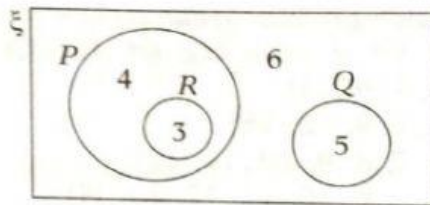
- 2 The Venn diagram shows the universal set, $\xi = P \cup Q \cup R$.
Gambar rajah Venn di bawah menunjukkan set semesta, $\xi = P \cup Q \cup R$.



Which of the regions, **A**, **B**, **C** or **D**, represents the set $P \cap Q \cap R$?

*Antara kawasan **A**, **B**, **C** dan **D**, yang manakah mewakili set $P \cap Q \cap R$?*

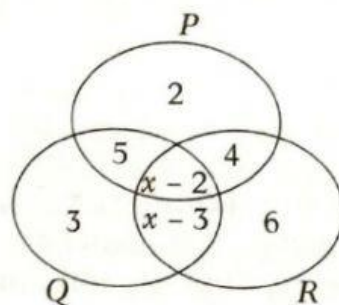
- 5 The Venn diagram shows the number of elements in the universal set, ξ , set P , set Q and set R .
 Gambar rajah Venn di bawah menunjukkan bilangan unsur dalam set semesta, ξ , set P , set Q dan set R .



Find $n[(P \cup Q) \cap R]$.

Cari $n[(P \cup Q) \cap R]$.

- A 9
 B 10
 C 11
 D 12
- 6 The Venn diagram shows the number of the elements in set P , set Q and set R .
 Gambar rajah Venn di bawah menunjukkan bilangan unsur bagi set P , set Q dan set R .

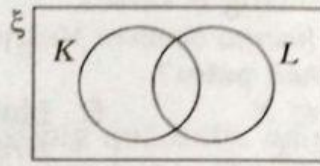


It is given that the universal set, $\xi = P \cup Q \cup R$ and $n(R') = n(P \cap R)$. Find the value of x .

Diberi bahawa set semesta, $\xi = P \cup Q \cup R$ dan $n(R') = n(P \cap R)$. Cari nilai x .

- A 3
 B 4
 C 7
 D 8

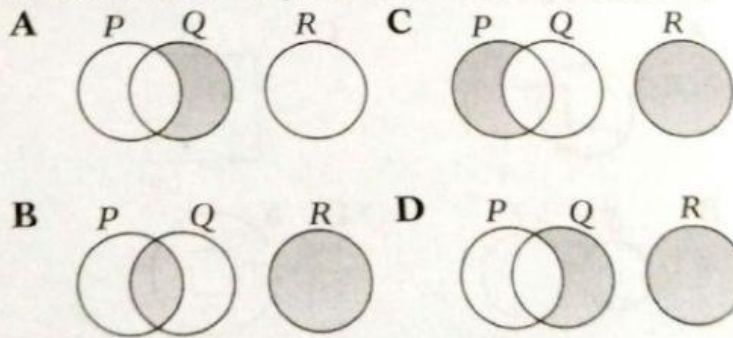
- 7 The Venn diagram shows the universal set, ξ , set K and set L .
 Gambarajah Venn di bawah menunjukkan set semesta, ξ , set K dan set L .



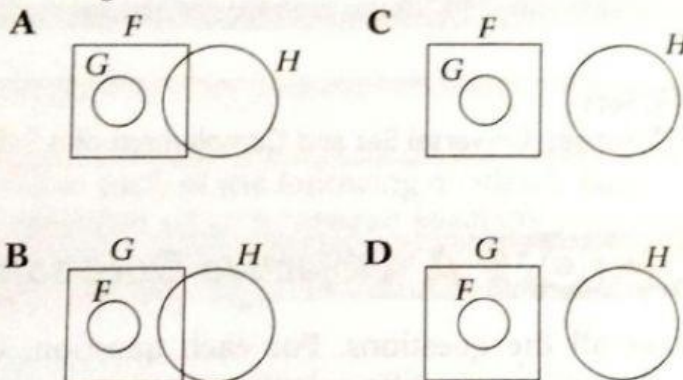
The region $(K \cap L)'$ is equivalent to the region
 Kawasan $(K \cap L)'$ setara dengan kawasan

- A $K \cap L'$ C $K \cup L'$
 B $K' \cap L'$ D $K' \cup L'$

- 8 In which of the following Venn diagrams does the shaded region represent the set $P' \cap Q \cup R$?
 Antara gambarajah Venn berikut, yang manakah kawasan berloreknnya mewakili set $P' \cap Q \cup R$?



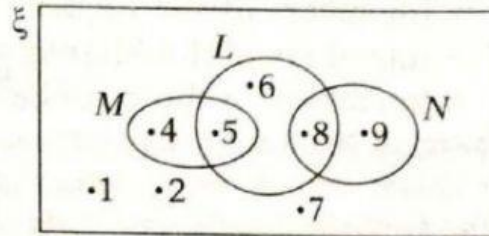
- 9 Given that the universal set, $\xi = F \cup G \cup H$, $G \subset F$ and $F \cap H \neq \phi$, the Venn diagram that represents these relationships is
 Diberi set semesta, $\xi = F \cup G \cup H$, $G \subset F$ dan $F \cap H \neq \phi$, gambarajah Venn yang mewakili hubungan itu ialah



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The Venn diagram shows all the elements of the universal set, ξ , set L , set M and set N .

Gambar rajah Venn di bawah menunjukkan semua unsur set semesta, ξ , set L , set M dan set N .



Find the elements of set $(M \cup N) \cap L$.

Cari unsur-unsur bagi set $(M \cup N) \cap L$.

- A {6}
- B {5, 8}
- C {5, 6, 8}
- D {4, 5, 8, 9}