

ULANGKAJI TINGKATAN 4

NAMA GURU:

SUBJEK: MATEMATIK

BAB 4 : OPERASI SET

NAMA:

KELAS:

(12 soalan: Isi dalam bulatan)

SOALAN 1

Diberi set $P = \{P, E, N, A, A, K, U, L, A, N\}$,
set $Q = \{P, E, R, S, I, L, A, N, G, A, N\}$ dan set
 $R = \{P, E, N, G, U, R, U, S, A, N\}$.

Tentukan $P \cap Q \cap R$.

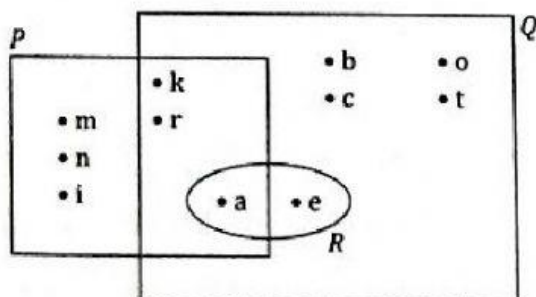
Given set $P = \{P, E, N, A, A, K, U, L, A, N\}$, set
 $Q = \{P, E, R, S, I, L, A, N, G, A, N\}$ and set $R =$
 $\{P, E, N, G, U, R, U, S, A, N\}$.

Determine $P \cap Q \cap R$.

A $\{P, E, N, A\}$ B $\{P, N, A, L\}$ C $\{P, E, N, A, L\}$ D $\{P, E, N, A, K, L, G, R, S\}$ **SOALAN 2**

Rajah berikut ialah gambar rajah Venn dengan
set P, set Q dan set R.

The following diagram is a Venn diagram with
set P set Q and set R.



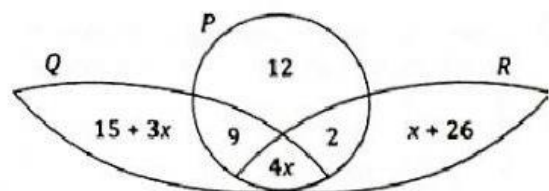
Senaraikan unsur bagi $P' \cap Q$.

List the elements of $P' \cap Q$.

A $\{a, e, k, r\}$ C $\{b, c, e, o, t\}$ B $\{b, c, o, t\}$ D $\{b, c, e, k, o, r, t\}$ **SOALAN 3**

Rajah berikut ialah gambar rajah Venn dengan
set P, set Q dan set R.

The following diagram is a Venn diagram with
set P, set Q and set R.



Diberi $n(Q) = n(R)$, hitung nilai x .

Given $n(Q) = n(R)$, calculate the value of x .

A 1

C 3

B 2

D 4

SOALAN 4

Antara 52 orang murid, terdapat 24 orang suka
minum jus epal dan 42 orang suka minum jus
belimbing. Hanya 8 orang murid tidak suka
minum jus epal dan belimbing. Hitung bilangan
murid yang suka minum kedua-dua jenis jus.

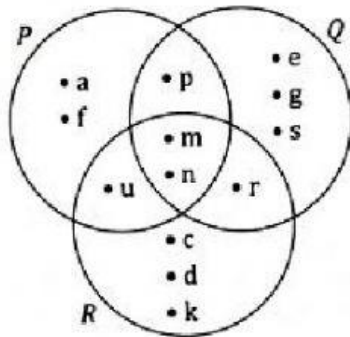
Among 52 students, it is found that 24 students like to drink apple juice and 42 students like to drink starfruit juice. Only 8 students do not like to drink both juices. Calculate the number of students who like to drink both juices.

- A 20 C 24
B 22 D 26

SOALAN 5

Rajah berikut ialah gambar rajah Venn dengan set semesta, ξ , set P, set Q dan set R.

The following diagram is a Venn diagram with the universal set, ξ , set P, set Q and set R.



Tentukan unsur-unsur bagi $(P \cap Q)' \cap R$.

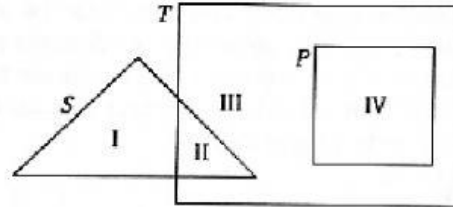
Determine the elements of $(P \cap Q)' \cap R$.

- A {m, n}
B {c, d, k, r, u}
C {c, d, k, m, n, r, u}
D {c, d, k, m, n, p, r, u}

SOALAN 6

Rajah berikut ialah gambar rajah Venn dengan set semesta, ξ , set P, set T dan set S.

The following diagram is a Venn diagram with universal set ξ , set P, set T and set S.



Antara berikut, yang manakah mewakili

$(T \cap P)' \cap (T \cap S)'$?

Which of the following represents

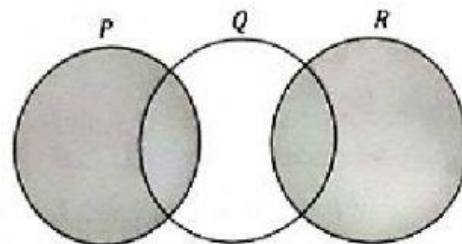
$(T \cap P)' \cap (T \cap S)'$?

- A I dan/ and III
B II dan/ and III
C I, II dan/ and III
D I, II, III dan/ and IV

SOALAN 7

Rajah berikut ialah gambar rajah Venn dengan set P, set Q dan set R.

The following diagram is a Venn diagram with set P set Q and set R.



Antara berikut, yang manakah mewakili rantau berlorek?

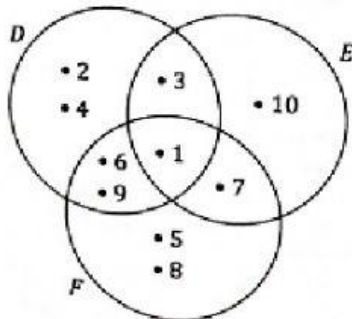
Which of the following represents the shaded region?

- A $P \cup Q \cup R$ C $P \cup R$
B $P \cup Q$ D $Q \cup R$

SOALAN 8

Rajah berikut ialah gambar rajah Venn dengan set semesta, $\xi = D \cup E \cup F$.

The following diagram is a Venn diagram with the universal set $\xi = D \cup E \cup F$



Antara berikut, yang manakah ialah unsur unsur bagi $D \cup F'$?

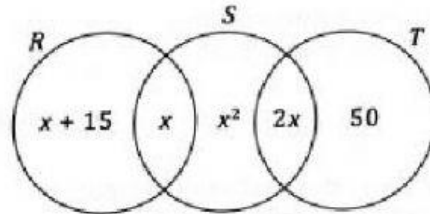
Which of the following are the elements of $D \cup F'$?

- A {2, 3, 4, 10}
B {1, 2, 3, 4, 6, 9, 10}
C {1, 2, 3, 4, 6, 7, 9, 10}
D {1, 2, 3, 4, 5, 6, 7, 8, 9}

SOALAN 9

Rajah berikut ialah gambar rajah Venn dengan set semesta, $\xi = R \cup S \cup T$.

The following diagram is a Venn diagram with the universal set $\xi = R \cup S \cup T$.



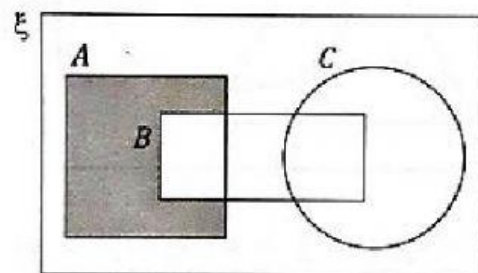
Diberi $n(R \cup S) = n(T)$, cari nilai $n(S \cup T)$.
Given $n(R \cup S) = n(T)$, find the value of $n(S \cup T)$.

- A 40 C 90
B 60 D 110

SOALAN 10

Rajah berikut ialah gambar rajah Venn dengan set semesta, $\xi = A \cup B \cup C$.

The following diagram is a Venn diagram with the universal set, $\xi = A \cup B \cup C$.



Antara berikut, yang manakah mewakili rantau berlorek?

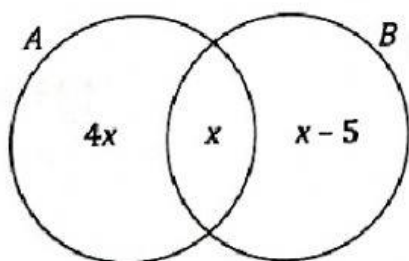
Which of the following represents the shaded region?

- A $(A \cup C) \cap B'$
- B $(A \cup B) \cap C'$
- C $(A \cap B)' \cap A$
- D $(B \cap C)' \cap A$

SOALAN 11

Rajah berikut ialah gambar rajah Venn dengan set A dan set B.

The following diagram is a Venn diagram with set A and set B.



Diberi A = {murid yang suka berenang}, B = {murid yang suka bermain tenis} dan bilangan murid yang hanya suka satu jenis permainan ialah 60 orang. Hitung jumlah bilangan murid yang diwakili oleh gambar rajah Venn.

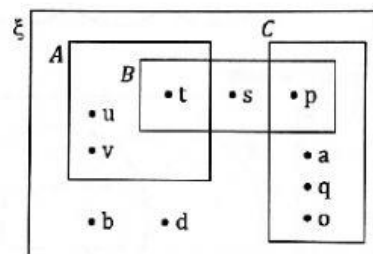
Given A = (students who like to swim), B = (students who like to play tennis) and the number of students who like to play only one type of game is 60. Calculate the total number of students represented by the Venn diagram.

- A 67
- B 70
- C 71
- D 73

SOALAN 12

Rajah berikut ialah gambar rajah Venn dengan set semesta, $\xi = A \cup B \cup C$.

The following diagram is a Venn diagram with the universal $\xi = A \cup B \cup C$.



Senaraikan semua unsur bagi set $(A \cap B)' \cup C$.

List all the elements of set $(A \cap B)' \cup C$.

- A {a, q, o}
- B {a, p, q, o}
- C {a, p, q, o, u, v}
- D {a, p, q, o, u, v, t}

