

OPERASI SET

JOHOR

- 13 Fiza dikehendaki memilih satu daripada tiga sampul soalan. Dia perlu menjawab soalan dengan betul untuk memenangi satu pertandingan. Jadual 3 menunjukkan soalan-soalan yang terdapat dalam setiap sampul.

Fiza is required to choose an envelope from the three question envelopes. She needs to answer the questions correctly in order to win a competition. Table 3 shows the questions in each of the envelopes.

Sampul / envelope	Soalan / questions
A	Nombor perdana kurang dari 15 Prime number less than 15
B	Faktor bagi 8 Factor of 18
C	Gandaan 4 kurang dari 15 Multiple of 4 less than 15

Jadual 3
Table 3

- (a) (i) Senaraikan semua jawapan bagi soalan dalam setiap sampul A, B dan C.
List all the answers for the questions in each envelopes A, B and C.
- (ii) Lukis satu gambarajah Venn untuk menunjukkan hubungan antara ketiga-tiga set tersebut.
Draw a Venn Diagram to show the relationship among the three sets.

[5 Markah / Marks]

- (b) Gambarajah Venn di ruang jawapan menunjukkan set P , Q dan R di mana set semesta, $\xi = P \cup Q \cup R$. Lorek di ruang jawapan :

The Venn diagrams in the answer space shows sets P , Q and R such that the universal set, $\xi = P \cup Q \cup R$. Shade in the answer space :

- (i) $P \cap R'$
- (ii) $(P \cap R) \cup Q$

[3 Markah / Marks]

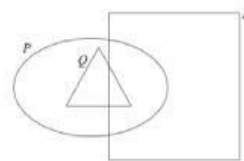
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Jawapan/ Answer :

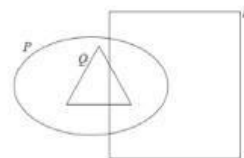
(a) (i)

(ii)

(b) (i)



(ii)



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MELAKA

- 13 (a) Diberi set semesta, $\xi = \{x : 4 \leq x \leq 12, x \text{ ialah integer}\}$, set $K = \{x : x \text{ ialah nombor ganjil}\}$ dan set $L = \{x : x \text{ ialah faktor bagi } 40\}$.
 Given the universal set, $\xi = \{x : 4 \leq x \leq 12, x \text{ is an integer}\}$, set $K = \{x : x \text{ is an odd number}\}$ and set $L = \{x : x \text{ is a factor of } 40\}$.

- (i) Senaraikan semua unsur bagi set K dan set L .
 List all the elements of set K and set L . [2 markah/marks]
- (ii) Seterusnya, lukis gambarajah Venn bagi menunjukkan hubungan antara set ξ , set K dan set L .
 Hence, draw a Venn diagram to represent the relationship between set ξ , set K and set L . [3 markah/marks]

Jawapan / Answer :

- (a) (i) Set K :

Set L :

PERAK

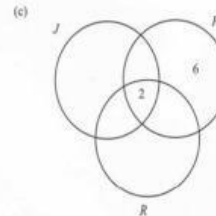
- (c) Jadual 2.1 dalam maklumat peserta sebahagian acara yang dipertandingkan dalam kejohanan tersebut.
 Table 2.1 is an information on the participants of some of the events contested in the tournament.

Acara Event	Bilangan peserta Number of participant
Lompat jauh (J) Long jump (J)	10
Lontar peluru (P) Shot put (P)	14
Rejam lembing (R) Javelin throw (R)	10
Lompat jauh dan rejam lembing Long jump and javelin throw	5
Lompat jauh dan lontar peluru Long jump and shot put	4
Lontar peluru dan rejam lembing Shot put and javelin throw	6
Ketiga-tiga acara All three events	2

Jadual 2.1 / Table 2.1

Lengkapkan gambarajah Venn di ruang jawapan bagi menunjukkan bilangan peserta yang menyertai acara-acara itu.
 Complete the Venn diagram in the answer space to show the number of participant in the events. [3 markah / marks]

Jawapan / Answer :



N9

13 Diberi bahawa set semesta, $\xi = \{x : x \text{ ialah integer, } 1 \leq x \leq 20\}$.

Set $P = \{x : x \text{ ialah nombor kuasa dua sempurna}\}$

Set $Q = \{x : x \text{ ialah nombor yang boleh dibahagi tepat dengan 5}\}$

Set $R = \{x : x \text{ ialah faktor bagi 15}\}$

Given that the universal set, $\xi = \{x : x \text{ is an integer, } 1 \leq x \leq 20\}$.

Set $P = \{x : x \text{ is a perfect square}\}$

Set $Q = \{x : x \text{ is a number that is exactly divisible by 5}\}$

Set $R = \{x : x \text{ is a factor of 15}\}$

(a) Senaraikan unsur bagi P , Q dan R dengan menggunakan tatatanda set.

List the elements of P , Q and R by using the set notation.

[3 markah]

[3 marks]

(b) (i) Lengkapkan gambar rajah Venn pada ruang jawapan untuk menunjukkan hubungan antara ketiga-tiga set P , set Q dan set R .

Complete the Venn diagram in the answer space to show the relationship between the three set P , set Q and set R .

(ii) Seterusnya, cari set $(P \cup Q) \cap R'$ dan $n(P \cup Q) \cap R'$.

Next, find set $(P \cup Q) \cap R'$ and $n(P \cup Q) \cap R'$.

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Jawapan / Answer:

(a) Set P :

Set Q :

Set R :

(b) (i) ξ

(ii) $(P \cup Q) \cap R' =$

$n(P \cup Q) \cap R' =$