

MODUL MATEMATIK KSSM (KERTAS 1)

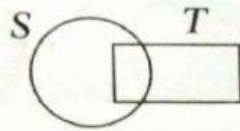
TINGKATAN 4

TOPIK 4: OPERASI ATAS SET

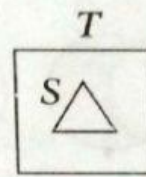
- 1 Given P is a set of prime numbers between 10 and 30. The elements of set P are
Diberi P ialah set nombor perdana antara 10 dan 30. Unsur-unsur bagi set P ialah
- A {11, 13, 19}
 - B {11, 15, 19, 23, 29}
 - C {11, 13, 17, 19, 23, 29}
 - D {11, 13, 17, 19, 21, 23, 27, 29}
- 2 Given that $Q = \{\text{factors of 18}\}$, find $n(Q)$.
Diberi $Q = \{\text{faktor bagi 18}\}$, cari $n(Q)$.
- A 5
 - B 6
 - C 7
 - D 8
- 3 Given $X = \{\text{colours of the Malaysian flag}\}$. Which of the following is **false**?
*Diberi $X = \{\text{warna bendera Malaysia}\}$. Antara berikut, yang manakah **palsu**?*
- A white $\in X$
putih $\in X$
 - B red $\in X$
merah $\in X$
 - C blue $\in X$
biru $\in X$
 - D green $\in X$
hijau $\in X$

- 4 Which of the following Venn diagrams represents the set $S \subset T$ with the universal set, $\xi = S \cup T$?
 Antara gambar rajah Venn berikut, yang manakah mewakili set $S \subset T$ dengan keadaan set semesta, $\xi = S \cup T$?

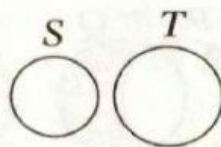
A



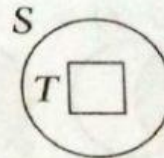
C



B



D



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- 5 Given set $P = \{4, 6, 7\}$, set $Q = \{3, 4, 5, 7\}$ and set $R = \{4, 5, 7\}$. Which of the following is true?
 Diberi set $P = \{4, 6, 7\}$, set $Q = \{3, 4, 5, 7\}$ dan set $R = \{4, 5, 7\}$. Antara berikut, yang manakah benar?

A $P \subset Q$

B $Q \subset P$

C $R \subset P$

D $R \subset Q$

- 6 Given $\xi = \{x : 5 \leq x \leq 20, x \text{ is an integer}\}$ and $P = \{x : x \text{ is a multiple of } 5\}$, find $n(P')$.
 Diberi $\xi = \{x : 5 \leq x \leq 20, x \text{ ialah integer}\}$ dan $P = \{x : x \text{ ialah gandaan } 5\}$, cari $n(P')$.

A 4

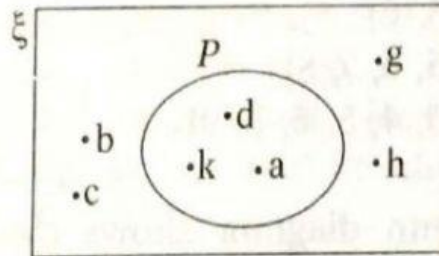
C 10

B 8

D 12

- 7 The Venn diagram shows the universal set, ξ and set P .

Gambar rajah Venn di bawah menunjukkan set semesta, ξ dan set P .



List the elements of set P' .

Senaraikan unsur-unsur bagi set P' .

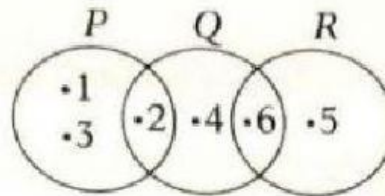
- A** $\{a, d, k\}$
B $\{a, d, k, g\}$
C $\{b, c, g, h\}$
D $\{a, b, c, d, g, h\}$
- 8 The number of subsets in a set which contains 4 elements is

Bilangan subset dalam set yang mengandungi 4 unsur ialah

- A** 6
B 8
C 12
D 16

- 9 The Venn diagram shows the elements of sets P , Q and R .

Gambar rajah Venn di bawah menunjukkan unsur-unsur bagi set P , Q dan R .



Given the universal set, $\xi = P \cup Q \cup R$, then set $Q' =$

Diberi set semesta, $\xi = P \cup Q \cup R$, maka set $Q' =$

A $\{1, 3\}$

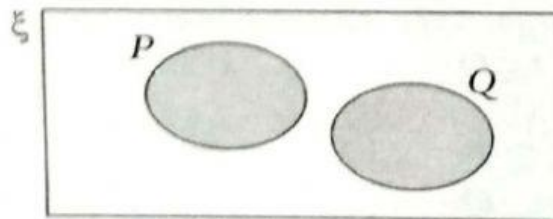
C $\{2, 4, 6\}$

B $\{1, 3, 5\}$

D $\{1, 2, 3, 5, 6\}$

- 10 The Venn diagram shows the universal set, ξ , set P and set Q .

Gambar rajah Venn di bawah menunjukkan set semesta ξ , set P dan set Q .



The set which represents the shaded region is
Set yang mewakili kawasan yang berlorek ialah

A $P \cap Q$

B $(P \cap Q)'$

C $P \cup Q$

D $(P \cup Q)'$