



7. Dua guli dipilih secara rawak daripada sebuah beg yang mengandungi 4 biji guli biru, 5 biji guli kuning dan 2 biji guli merah.

Two marbles are randomly selected from a bag that has 4 blue marbles, 5 yellow marbles, and 2 red marbles.

- (a) Lengkapkan gambar rajah pokok pada ruang jawapan.

Complete the tree diagram in the answer space.

[2 markah/ marks]

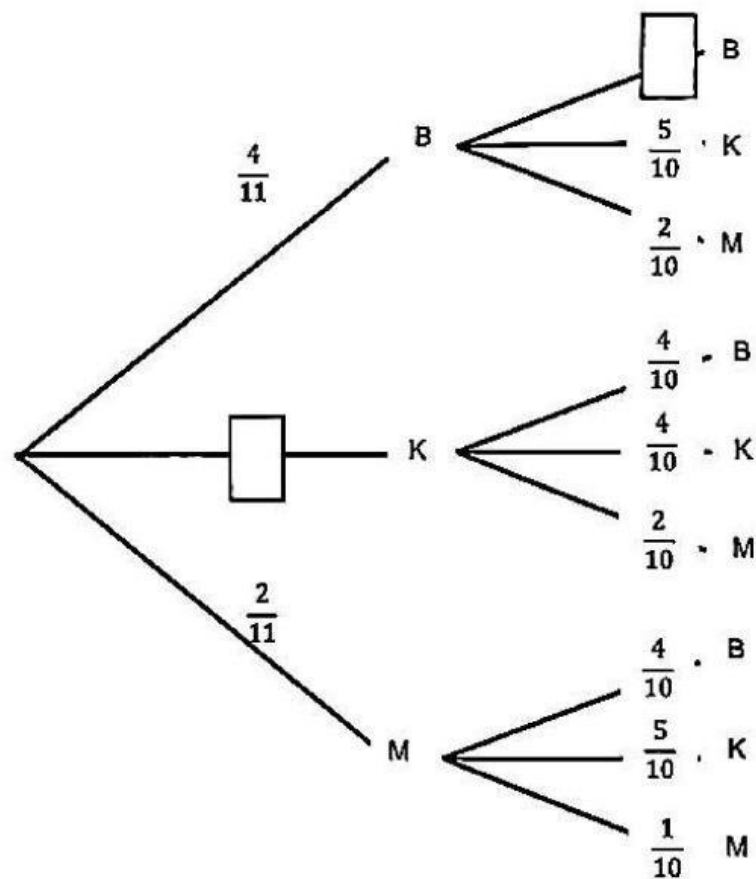
- (b) Cari kebarangkalian bahawa guli biru atau kuning tidak dipilih.

Find the probability that a blue or yellow marble is not chosen.

[2 markah/ marks]

Jawapan / Answer:

(a)



(b)



- 5 Satu tinjauan telah dijalankan oleh sebuah restoran tentang dua menu baharu yang disajikan di restoran itu. Kebarangkalian pelanggan memilih menu P dan menu R masing-masing ialah $\frac{4}{7}$ dan $\frac{8}{13}$.

A survey has been conducted by a restaurant regarding to two new menus served at the restaurant. The probabilities of a customer choosing menu P and menu R are $\frac{4}{7}$ and $\frac{8}{13}$ respectively.

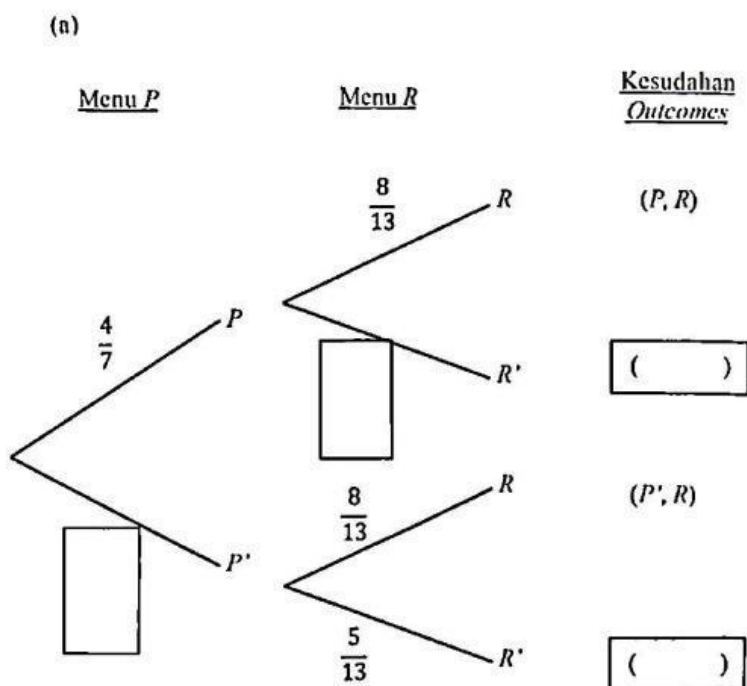
- (a) Lengkapkan rajah pokok di ruang jawapan.
Complete the tree diagram in the answer space.

[2 markah /marks]

- (b) Hitung kebarangkalian bahawa sekurang-kurangnya satu menu dipilih.

Calculate the probability that at least one menu is selected.

[3 markah /marks]



(b)



- (c) Semasa majlis tersebut, acara cabutan bertuah diadakan bagi menghargai 6 orang penyumbang terawal. Jadual 5 menunjukkan nama-nama penyumbang tersebut.

During the event, a lucky draw was held to appreciate the 6 original contributors. Table 5 below shows the names of the contributors.

Penyumbang Lelaki Male Contributors	Penyumbang perempuan Female Contributors
Daniel (D) Farid (F) Chong (C) Bakar (B)	Aisyah (A) Emma (E)

Jadual 5

Table 5

Dua orang penyumbang akan dipilih secara rawak sebagai pemenang cabutan bertuah.

Two contributors will be selected randomly as the lucky draw winners.

- (i) Senaraikan semua kesudahan yang mungkin dalam ruang sampel ini.
List all the possible outcomes in this sample space.

[2 markah]

[2 marks]

Jawapan / Answer:

(i)

- (ii) Hitung kebarangkalian bahawa sekurang-kurangnya seorang pemenang wanita dipilih dalam cabutan tersebut.

Calculate the probability that at least one female winner is selected in the lucky draw.

[2 markah]

[2marks]

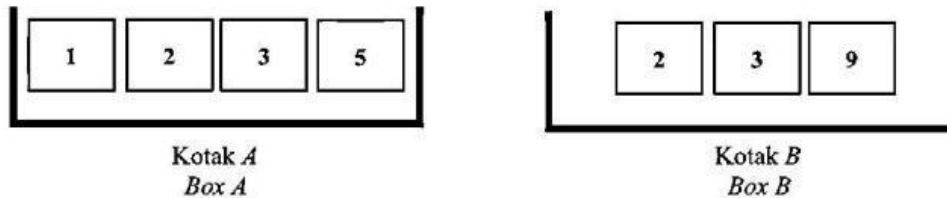
Jawapan / Answer:

(ii)



- 10 Rajah 4 menunjukkan dua set kad berlabel nombor dalam Kotak A dan Kotak B. Sekeping kad dipilih secara rawak daripada setiap kotak itu.

Diagram 4 shows two sets of cards labelled with numbers in Box A and Box B. A card is picked at random from each box.



Rajah 4
Diagram 4

- (a) Lengkapkan ruang sampel dalam Jadual 4 di ruang jawapan. [1 markah]
Complete the sample space in Table 4 in the answer space. [1 mark]
- (b) Dengan menyenaraikan semua kesudahan yang mungkin, hitung kebarangkalian bahawa kedua-dua kad menunjukkan nombor perdana. [2 markah]
By listing all possible outcomes, find the probability that both cards show a prime number. [2 marks]

Jawapan / Answer :

(a)

Kotak B Box B \ Kotak A Box A	1	2	3	5
2	(2, 1)	(2, 2)	(2, 3)	(2, 5)
3	(3, 1)	(3, 2)		(3, 5)
9	(9, 1)		(9, 3)	(9, 5)

Jadual 4
Table 4

(b)