



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]

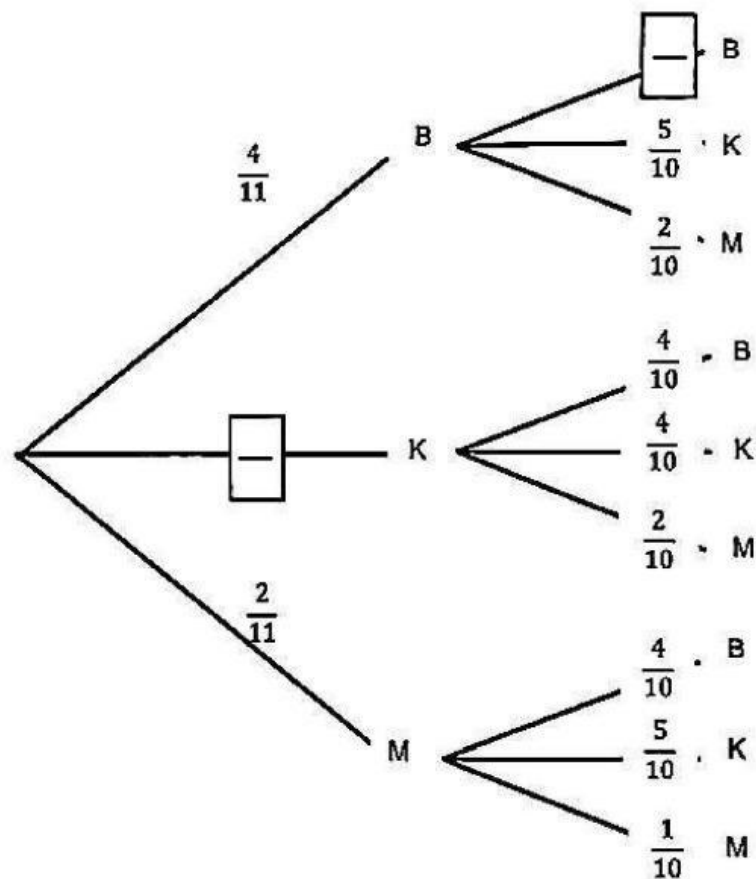
- (b) Cari kebarangkalian bahawa guli biru atau kuning tidak dipilih.

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 $\frac{8}{13}$.

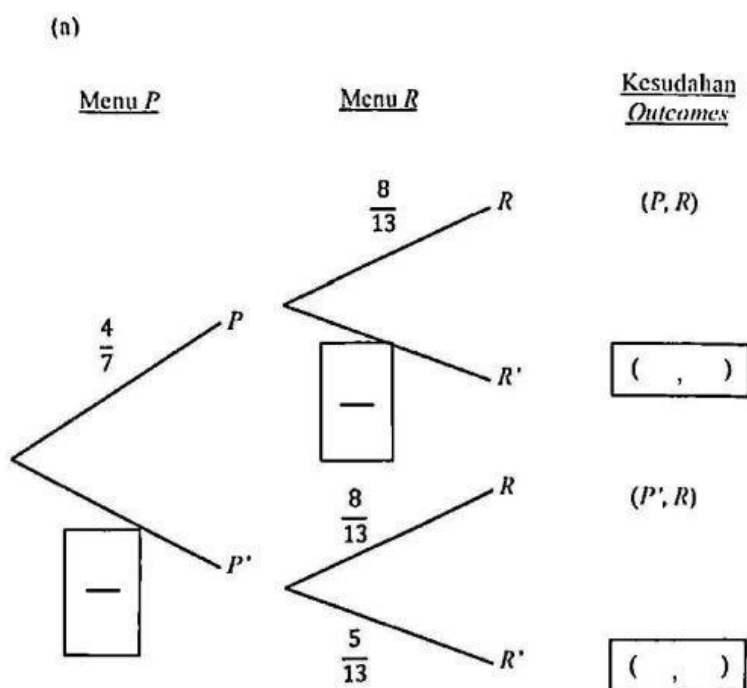
A survey has been conducted by a restaurant regarding to two new menus served at the restaurant. The probabilities of a customer choosing menu P and menu R are $\frac{4}{7}$ and $\frac{8}{13}$ respectively.

- (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) — — — — —
—

- 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 <i>Male Contributors</i>	Penyumbang perempuan <i>Female Contributors</i>
Daniel (<i>D</i>)	
Farid (<i>F</i>)	Aisyah (<i>A</i>)
Chong (<i>C</i>)	Emma (<i>E</i>)
Bakar (<i>B</i>)	

Table 5

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

- [2 marks]**

(i) $\{ \begin{matrix} \frac{1}{2}, \frac{1}{3}, \frac{1}{4}, \frac{1}{5}, \frac{1}{6}, \frac{1}{7}, \frac{1}{8}, \frac{1}{9}, \frac{1}{10}, \\ \frac{1}{11}, \frac{1}{12}, \frac{1}{13}, \frac{1}{14} \end{matrix} \}$

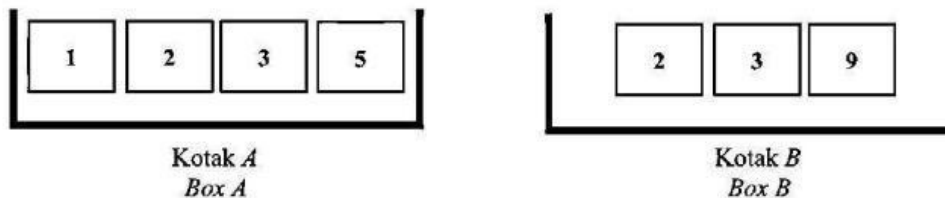
- [2marks]**

[illegible]



- 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 A Box A		1	2	3	5
Kotak B Box B	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) $\{(,), (,), (,), (,), (,), (,)\}$

—