

Penyelesaian Lengkap

Pentaksiran Sumatif

Kertas 1

1 A

Angka yang kelima bagi 24.0637 ialah 3. 3 adalah kurang daripada 5. Jadi, kita tidak perlu menambah satu kepada digit yang sebelumnya, iaitu, 24.06.

The fifth figure of 24.0637 is 3. 3 is less than 5. So, we no need to add one to the previous digit, that is, 24.06.

2 A

$$\begin{aligned}f(x) &= -(x-1)(x-5) \\&= -x^2 + 6x - 5\end{aligned}$$

3 A

$$\begin{aligned}y^2 + 2y &= 15 \\y^2 + 2y - 15 &= 0 \\(y+5)(y-3) &= 0 \\y = -5 \text{ atau/or } y &= 3\end{aligned}$$

4 B

$$\begin{aligned}0.712 \times 10^{-3} \text{ m} \\= 0.712 \times 10^{-1} \text{ cm} \\= 7.12 \times 10^{-2} \text{ cm}\end{aligned}$$

Satu nombor adalah dalam bentuk piawai apabila nombor tersebut dalam bentuk $a \times 10^b$ dengan keadaan $1.0 \leq a < 10.0$ dan b ialah integer.

A number is said to be in standard form when the number is in the form of $a \times 10^b$ where $1.0 \leq a < 10.0$ and b is an integer.

5 A

$$\begin{aligned}\frac{w^2 - 5w + 6}{2w - 4} \div (w - 3) \\= \frac{(w-2)(w-3)}{2(w-2)(w-3)} \\= 0.5\end{aligned}$$

6 C

$$\begin{aligned}\sqrt[3]{p^2} &= \frac{3p}{2\sqrt[3]{qr}} \\p^{\frac{2}{3}} &= \frac{3p}{2\sqrt[3]{qr}} \\p^{\frac{2}{3}-1} &= \frac{3}{2\sqrt[3]{qr}} \\p^{-\frac{1}{3}} &= \frac{3}{2\sqrt[3]{qr}} \\p &= \left(\frac{3}{2\sqrt[3]{qr}}\right)^{-3} \\p &= \frac{8qr}{27}\end{aligned}$$

7 C

Hanya fungsi pada C boleh mendapat $g(3) = -10$.

Only the function in C can get $g(3) = -10$.

8 B

Nilai yang mungkin bagi p ialah 1 atau 2 sahaja kerana graf $f(x)$ mempunyai lengkok yang lebih lebar. $q = 4$ kerana $f(x)$ dan $g(x)$ mempunyai pintasan- y yang sama, iaitu, 4. Maka, $1 \times 4 = 4$ atau $2 \times 4 = 8$.

The possible values of p are 1 or 2 as graph $f(x)$ has a wider curve. $q = 4$ because $f(x)$ and $g(x)$ have the same y -intercept, that is 4. Hence, $1 \times 4 = 4$ or $2 \times 4 = 8$.

9 D

$$\begin{aligned}f(x) &= -x^2 + 6x + h \\Pintasan-y &\text{ ialah } 10. \text{ Maka, } h = 10. \\y\text{-intercept is } 10. \text{ Hence, } h &= 10 \\f(x) &= -x^2 + 6x + 10 \\f(3) &= -3^2 + 6(3) + 10 \\&= 19\end{aligned}$$

10 B

11 D

Digit bagi suatu nombor dalam asas n terdiri daripada digit-digit kurang daripada n sahaja.

Digits of a number in base n consists of digits which are less than n only.

12 A

$$\begin{aligned}123_4 &= 1(4^2) + 2(4^1) + 3(4^0) \\&= 27_{10} \\27_{10} &= 3(8^1) + 3(8^0)\end{aligned}$$

Maka/Hence, $n = 33$

13 B

51 boleh dibahagi tepat dengan 3. Maka, 51 bukan nombor perdana.

51 is divisible by 3. Thus, 51 is not a prime number.

14 A

15 C

16 B

17 D

$$\begin{aligned}n(P \cup R)' &= n(Q). \\4x &= 12 + 2x \\2x &= 12 \\x &= 6 \\n(\xi) &= 5x + 7 + 6 + 1 + 5 \\&= 30 + 19 \\&= 49\end{aligned}$$

18 B

19 D

$$\begin{aligned}1 \text{ bahagian/part} &= 35 \div 7 \\&= 5\end{aligned}$$

Bilangan kanak-kanak/Number of children = $4 \times 5 = 20$

20 D

Bilangan murid yang menggemari Milo sahaja dan kopi sahaja masing-masing ialah 7 dan 1. Maka, bilangan murid yang menggemari Milo sahaja sepatutnya 7 kali bilangan murid yang menggemari kopi sahaja.

The number of students who love Milo only and coffee only is 7 and 1 respectively. Hence, the number of students who love Milo only should be 7 times that of the number of students who love coffee only.

21 B

Graf mudah ialah graf tanpa gelung dan berbilang tepi.
Simple graph is a graph without loops and multiple edges.

22 D

I:

$$(1, 2)$$

$$x + 3y < 10$$

$$1 + 3(2) = 7 < 10$$

II:

$$3x + y > 4$$

$$3(1) + 2 = 5 (> 4)$$

III

$$x + y = 3$$

$$1 + 2 = 3$$

23 D

Graf tersebut tidak dapat dilukis sebab jumlah bilangan darjah ialah nombor ganjil.

The graph cannot be drawn because the total degree of vertices is an odd number.

24 D

Suatu pokok mempunyai n bucu dan $n - 1$ tepi.

Graf yang diberi mempunyai 6 bucu. Graf tersebut harus mempunyai 5 tepi untuk menjadi suatu pokok. Sekarang ia mempunyai 13 tepi. $13 - 5 = 8$ tepi harus digugurkan.

A tree has n vertices and $n - 1$ edges. The graph given has 6 vertices. In order for the graph to be a tree, it should have 5 edges. Now it has 13 edges. $13 - 5 = 8$ edges should be removed.

25 B

$$A \rightarrow B \rightarrow C \rightarrow D$$

$$200 \text{ m} + 800 \text{ m} + 80 \text{ m} = 1080 \text{ m}$$

26 D

27 D

$$\begin{aligned}\sum x^2 &= 7^2 + 4^2 + 2^2 + 10^2 + 11^2 \\ &= 290\end{aligned}$$

$$\begin{aligned}\sum x &= 7 + 4 + 2 + 10 + 11 \\ &= 34\end{aligned}$$

$$\begin{aligned}\text{Min/Mean} &= \frac{34}{5} \\ &= 6.8\end{aligned}$$

$$\begin{aligned}\text{Varians/Variance} &= \frac{290}{5} - (6.8)^2 \\ &= 11.76\end{aligned}$$

Apabila setiap cerapan dalam suatu set data didarab dengan suatu pemalar j , maka

$$\text{Varians baharu} = j^2 \times \text{varians asal} = 11.76j^2$$

When every data in a set of data is multiplied with a constant j , hence

$$\text{New variance} = j^2 \times \text{original variance} = 11.76j^2$$

28 A

29 A

30 D

31 B

$$\begin{aligned}\text{Laju purata} &= \frac{\text{Jumlah jarak}}{\text{Jumlah masa}} \\ &= \frac{150 \text{ km}}{1.5 \text{ j}} \\ &= 100 \text{ km j}^{-1}\end{aligned}$$

$$\begin{aligned}\text{Average speed} &= \frac{\text{Total distance}}{\text{Total time}} \\ &= \frac{150 \text{ km}}{1.5 \text{ h}} \\ &= 100 \text{ km h}^{-1}\end{aligned}$$

32 B

$$\begin{aligned}\text{Julat/Range} &= 20 - 7 \\ &= 13\end{aligned}$$

Julat antara kuartil adalah ukuran serakan yang lebih sesuai untuk set data di atas sebab wujudnya pencilan.

Interquartile range is a more suitable measure of dispersion for the set of data above because there is an outlier.

7 8 8 9 9 9 10 10 10 11 11 11 11 12 12
12 13 13 13 13 13 14 14 14 14 14 14 15 15 15

16 20

Median = 12

33 A

$$(5m, 60) (3m, 80)$$

$$\frac{80 - 60}{3m - 5m} = -2.5$$

$$\frac{20}{-2m} = -2.5$$

$$5m = 20$$

$$m = 4$$

34 A

Jarak yang dilalui a jam yang pertama

Distance travelled in the first a hours

$$= 0.5(a)(40)$$

$$= 20a$$

Jarak yang dilalui selepas a jam

Distance travelled after a hours

$$= 40a$$

35 A

Bilangan murid Number of students	Kekerapan Frequency	Kekerapan longgokan Cumulative frequency
0	0	0
1	3	3
2	6	9
3	9	18
4	10	28
5	12	40

$$Q_1 = \text{cerapan ke-} \left(\frac{1}{4} \times 40 \right)$$

= cerapan ke-10

= 3

$$Q_1 = \text{the } \left(\frac{1}{4} \times 40 \right) \text{th value}$$

= the 10th value

= 3

$$Q_3 = \text{cerapan ke-} \left(\frac{3}{4} \times 40 \right)$$

= cerapan ke-30

= 5

$$Q_4 = \text{the } \left(\frac{3}{4} \times 40 \right) \text{th value}$$

= the 30th value

= 5

Julat antara kuartil/Interquartile range

$$= 5 - 3$$

= 2

36 B

$$\text{Min/Mean} = \frac{\sum x}{n}$$

$$10 = \frac{\sum x}{25}$$

$$\sum x = 250$$

$$\text{Varians/Variance} = \frac{\sum x^2}{25} - 10^2$$

$$\frac{\sum x^2}{25} - 10^2 = 2$$

$$\sum x^2 = 2550$$

$$\sum x \text{ baharu/New } \sum x = 250 - 40$$

$$= 210$$

Katakan m ialah bilangan nombor yang dikeluarkan.

Let m be the number of numbers being removed.

$$\frac{40}{m} = 10$$

$$m = 4$$

Katakan r ialah hasil tambah kuasa dua nombor-nombor yang dikeluarkan.

Let r be the sum of the squares of the numbers being removed.

Sisihan piawai baharu/New standard deviation = $\sqrt{20}$

$$\sqrt{\frac{2550 - r}{25 - 4} - \left(\frac{210}{25 - 4} \right)^2} = \sqrt{20}$$

$$\frac{2550 - r}{21} - 100 = 20$$

$$2550 - r = 2520$$

$$r = 30$$

37 C

$$1 - P(\text{Tiada ros dua kali berturut-turut}/\text{No rose for two times consecutively}) = 0.36$$

$$P(\text{Tiada ros dua kali berturut-turut}/\text{No rose for two times consecutively}) = 0.64$$

$$P(\text{Tiada ros}/\text{No rose}) = \sqrt{0.64}$$

$$= 0.8$$

$$P(\text{Ros/Rose}) = 1 - 0.8$$

$$= 0.2$$

$$P(\text{Bunga raya}/\text{Hibiscus}) = 1 - 0.2 - 0.3$$

$$= 0.5$$

$$1 - P(\text{Tiada bunga raya}/\text{No hibiscus})$$

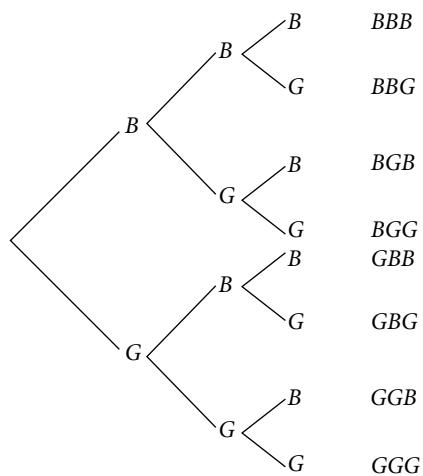
$$= 1 - 0.5(0.5)$$

$$= 0.75$$

Sekurang-kurangnya $0.75 \times 284 = 213$ bunga raya akan dipilih.

At least $0.75 \times 284 = 213$ hibiscus will be picked.

38 D



39 D

40 A

Jumlah pendapatan – Perbelanjaan tetap – Perbelanjaan tidak tetap

Total income – Fixed expenses – Variable expenses

$$= \text{RM}6\,000 - \text{RM}4\,000 - \text{RM}1\,500$$

$$= \text{RM}500$$

Encik Yusri perlu menyimpan $\text{RM}3\,600 \div 12 = \text{RM}300$ sebulan untuk mencapai matlamat kewangannya satu tahun kemudian.

Encik Yusri need to save $\text{RM}3\,600 \div 12 = \text{RM}300$ a month in order to achieve his financial goal one year later.

Aliran Tunai Encik Yusri/Encik Yusri's cash flow

$$= \text{RM}500 - \text{RM}300$$

$$= \text{RM}200$$

Kertas 2 ➔

Bahagian/Section A

1 (a) $x = 2$

$$(b) g(x) = -(x + 1)(x - 5)$$

$$= -x^2 + 4x + 5$$

$$(c) c = 5$$

2 $64_8 = 6(8^1) + 4(8^0)$

$$= 52$$

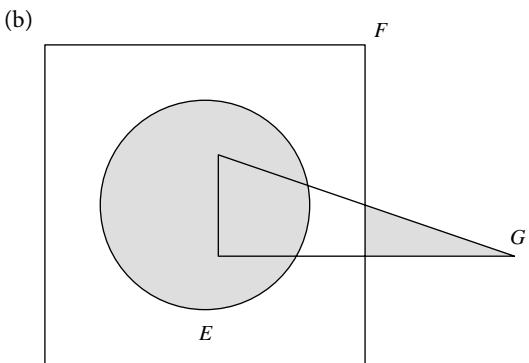
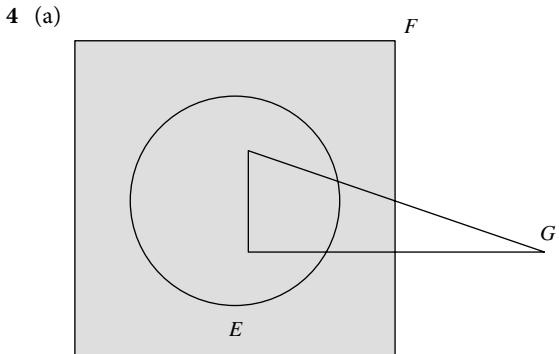
$$110000_2 = 2^5 + 2^4$$

$$= 48$$

Kedai Q memuaskan keperluan James.

Shop Q satisfies James's requirement.

- 3 (a) Jika $b \leq -4$, maka $-b \geq 4$.
If $b \leq -4$, then $-b \geq 4$.
(b) $5(n) - 3(n+2)^2$, dengan/where $n = 0, 1, 2, \dots$



- 5 (a) $d(W) = d_{\text{in}}(W) + d_{\text{out}}(W)$
 $= 1 + 3$
 $= 4$
- (b) $V = \{W, X, Y, Z\}$
(c) $E = \{(W, W), (W, X), (W, Y), (X, X), (X, Z), (Z, Y), (Y, Z)\}$
(d) $n(E) = 7$
Bilangan darjah/Sum of degrees = $7 \times 2 = 14$

6 Jumlah luas/Sum of area = 20
 $0.5 \times (\text{Tapak/Base}) \times 4 = 20$
Tapak/Base = 10

(-5, 0) (0, 4)
Garis/Line AB

$$y = \frac{4 - 0}{0 - (-5)}x + 4$$

$$y = \frac{4}{5}x + 4$$

Garis/Line BC

$$y = -\frac{4}{5}x + 4$$

$$y \geq 0, \quad y < -\frac{4x}{5} + 4 \quad y \leq -\frac{4x}{5} + 4$$

7 $0.5(v + v + 8)(3600) + 0.5(v)(3600) = 46800$
 $3600v + 14400 + 1800v = 46800$
 $5400v = 32400$
 $v = 6$

8 Tingkatan 4/Form 4

$$\text{Min/Mean}, \bar{x} = \frac{\sum x}{\sum f}$$

$$58 = \frac{\sum x}{480}$$

$$\sum x = 27840$$

$$\text{Varians/Variance} = \frac{\sum x^2}{\sum f} - \bar{x}^2$$

$$4 = \frac{\sum x^2}{480} - 58^2$$

$$\sum x^2 = (4 + 58^2)480$$

$$= 1616640$$

Tingkatan 5/Form 5

$$\text{Min/Mean}, \bar{x} = \frac{\sum x}{\sum f}$$

$$65 = \frac{\sum x}{468}$$

$$\sum x = 30420$$

$$\text{Varians/Variance} = \frac{\sum x^2}{\sum f} - \bar{x}^2$$

$$3 = \frac{\sum x^2}{468} - 65^2$$

$$\sum x^2 = (3 + 65^2)468$$

$$= 1978704$$

Gabungan kumpulan/Combined group

Sisihan piawai/Standard deviation

$$= \sqrt{\frac{1616640 + 1978704}{480 + 468} - \left(\frac{27840 + 30420}{480 + 468}\right)^2}$$

$$= \sqrt{\frac{3595344}{948} - \left(\frac{58260}{948}\right)^2}$$

$$= 3.969$$

9

	Ungu Purple	Biru Blue
Lelaki/Boys	8	12
Perempuan/Girls	16	6

$$\text{Kebarangkalian/Probability} = 1 - \frac{12}{20} \times \frac{11}{19}$$

$$= 0.6526$$

- 10 (a) Pinjaman rumah/House loan

- (b) Katakan x ialah gaji untuk kerja sampingan Kelly

Let x be Kelly's salary for the part time job

Aliran tunai = Jumlah pendapatan - Jumlah perbelanjaan

Cash flow = Total income - Total expenses

$$1500 = 4500 + x - (1500 + 500 + 2000 + 300)$$

$$x = 1300$$

Bahagian/Section B

- 11 (a) (i) (8, 0)

$$(ii) f(x) = -ax^2 + bx$$

Pada/At (4, 6)

$$6 = -a(4)^2 + 4b \dots\dots \textcircled{1}$$

Pada/At (8, 0)

$$0 = -a(8)^2 + 8b$$

$$64a = 8b$$

$$b = 8a \dots\dots \textcircled{2}$$

$$\textcircled{2} \rightarrow \textcircled{1}$$

$$16a - 4(8a) = -6$$

$$16a = 6$$

$$a = \frac{3}{8}$$

$$b = 8\left(\frac{3}{8}\right)$$

$$b = 3$$

$$\text{Maka/Thus } f(x) = -\frac{3}{8}x^2 + 3x$$

$$(b) (i) g(x) = \frac{3}{8}x^2 + 3x$$

$$(ii) g(x) = -\frac{3}{8}x^2 - 3x$$

- (c) Hujah tersebut adalah sah tetapi tidak munasabah kerana walaupun memenuhi Bentuk III, tetapi Premis 1 adalah palsu.

The argument is valid but not sound because although it fulfils Form III, but Premise 1 is false.

$$12 \quad 35 + 9x = 62$$

$$9x = 27$$

$$x = 3$$

- (a) (i) Bilangan murid yang menggemari sekurang-kurangnya dua jenis sukan

The number of pupils who like at least two types of sports.

$$= 11 + 8 + 3(3) + 2$$

$$= 30$$

- (ii) Bilangan murid yang menggemari bola sepak

The number of pupils who like football

$$= 11 + 2 + 8(3)$$

$$= 37$$

$$(b) 1011_2 = 2^3 + 2^1 + 2^0$$

$$= 8 + 2 + 1$$

$$= 11$$

Jumlah murid menjadi $62 + 11 = 73$. Maka, kebarangkalian murid yang terpilih menggemari

hoki sahaja ialah $\frac{3}{73}$

The total number of pupils become $62 + 11 = 73$.

Thus, the probability of the pupil chosen that like

hockey only is $\frac{3}{73}$

$$13 \quad (a) (i) y = -2x + 16$$

Apabila/When $x = 4$

$$y = -2(4) + 16$$

$$y = 8$$

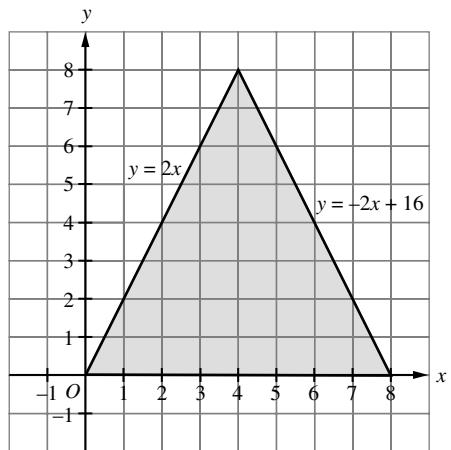
$$(4, 8)$$

Apabila/When $x = 8$

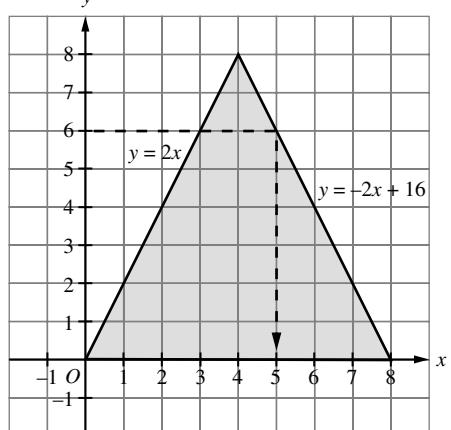
$$y = -2(8) + 16$$

$$y = 0$$

$$(8, 0)$$



(ii)



$$x = 5$$

- (b) (i) Katakan x dan y masing-masing mewakili harga bagi kasut dan seluar.

Let x and y be the price for shoes and pants respectively.

$$2x + 3y = 383 \dots\dots \textcircled{1}$$

$$4x + y = 321 \dots\dots \textcircled{2}$$

$$(ii) \textcircled{1} \times 2:$$

$$4x + 6y = 766 \dots\dots \textcircled{3}$$

$$\textcircled{3} - \textcircled{2}:$$

$$5y = 445$$

$$y = 89$$

$$2x + 3(89) = 383$$

$$2x = 116$$

$$x = 58$$

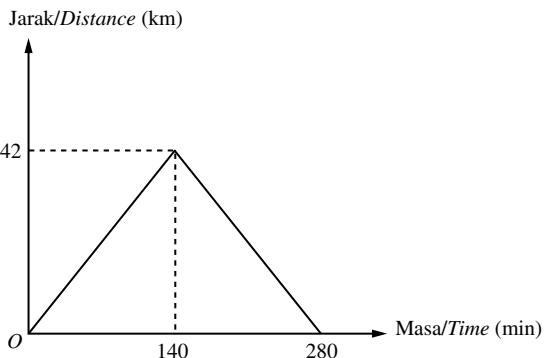
Jumlah bayaran Thiva/Total payment of Thiva

$$= 3(58) + 2(89)$$

$$= 352$$

- 14** (a) (i) $4 \times 3 \times 2 \times 1 = 24$ laluan/routes
(ii) Graf yang diberi bukan suatu pokok kerana terdapat 5 bucu dan 10 tepi. Pokok seharusnya mempunyai n bucu dan $n - 1$ tepi.
The graph given is not a tree because there are 5 vertices and 10 edges. A tree should have n vertices and $n - 1$ edges.

- (b) $A \rightarrow B \rightarrow C \rightarrow D \rightarrow C \rightarrow B \rightarrow A$
Jumlah masa yang diambil = 280 minit
Total time taken = 280 minutes
Laju purata = 18 km j^{-1}
Average speed = 18 km h⁻¹
 $\frac{\text{Jumlah jarak}/\text{Total distance}}{280 \div 60} = 18$
Jumlah jarak/Total distance = 84 km



Ketinggian tumbuh-tumbuhan di taman Puan Kamisah/Height of plants in Puan Kamisah's garden	Ketinggian tumbuh-tumbuhan di taman Puan Shifa/Height of plants in Puan Shifa's garden
8 3	5 8
7 4 4 2	6 1 5 7 9
8 5 3	7 3 9
8 5 2 0	8 0 2 3 3 8 9
5 2 0 0	9 0 1 4

Kekunci: 5|5 bermaksud 55 cm
Key: 5|5 means 55 cm

(ii) Taman Puan Kamisah/Puan Kamisah's garden
Julat/Range
 $= 95 - 53$
 $= 42$

Taman Puan Shifa/Puan Shifa's garden
Julat/Range
 $= 94 - 55$
 $= 39$

Taman Puan Kamisah mempunyai serakan data yang lebih besar.
Puan Kamisah's garden has a greater dispersion.

- (b) 150 180 200 200 210 220 250 250
260 270 280 280 300 320 320
(i) Median = 250
(ii) Julat antara kuartil/Interquartile range
 $= 280 - 200 = 80$

Bahagian/Section C

- 16** (a) Isi padu prisma + Isi padu trapezoid + Isi padu segi empat tepat
Volume of prism + Volume of trapezoid + Volume of rectangle
 $= (0.5 \times 8 \times 3 \times 6) + [0.5 \times (8 + 12) \times 5 \times 16] + (7 \times 16 \times 12)$
 $= 72 + 800 + 1344$
 $= 2216$

7	2216	Baki/Remainder
7	316	4
7	45	1
7	6	3
0	6	

Isi padu gabungan bongkah ialah $6314, \text{ cm}^3$.
The volume of the combined blocks is 6314, cm³.

- (b) (i) Matlamat kewangan jangka pendek
Short term financial goal
(ii) Perbelanjaan makanan/Food expenses;
Bayaran utiliti/Utility payments
(iii) Aliran tunai/Cash flow
 $= \text{RM}2\,500 - (\text{RM}150 + \text{RM}300 + \text{RM}900 + \text{RM}160) - \text{RM}18\,000 \left(\frac{0.2}{12} \right) = \text{RM}690$

- (iv) Taufik menggunakan konsep SMART semasa mencapai matlamat kewangannya.
Taufik uses SMART concept to achieve his financial goal.

- Khusus - Membeli sebuah van terpakai yang berharga RM18 000.
Specific - *Buy a second-hand van worth RM18 000.*
Boleh diukur - Membayar wang pendahuluan sebanyak $20\% \times 18\,000 = \text{RM}3\,600$.
Measurable - *Pay downpayment of 20\% \times 18\,000 = RM 3 600.*
Boleh dicapai - Wang pendahuluan yang boleh dicapai sebanyak RM3 600 dalam setahun
Attainable - *Save RM3 600 for downpayment within a year.*
Realistik - Simpanan bulanan sebanyak $\frac{\text{RM}3\,600}{12} = \text{RM}300$ daripada jumlah pendapatannya iaitu RM2 500 adalah sebanyak $\frac{\text{RM}300}{\text{RM}2\,500} \times 100\% = 12\%$ sahaja.

Realistic

- *Monthly savings of*

$$\frac{\text{RM}3\,600}{12} = \text{RM}300 \text{ from his total income of RM}2\,500$$

$$\text{is } \frac{\text{RM}300}{\text{RM}2\,500} \times 100\% = 12\% \text{ only.}$$

Tempoh masa - Dalam tempoh 1 tahun
Time bound - Within 1 year

17 (a) Faedah Program 1/*Programme 1 interest*

$$\begin{aligned} I &= Prt \\ &= \text{RM}60\,000 \times 7\% \times 5 \\ &= \text{RM}21\,000 \end{aligned}$$

Program 2/*Programme 2*

$$\begin{aligned} MV &= P \left(1 + \frac{r}{n}\right)^{nt} \\ &= \text{RM}60\,000 \left(1 + \frac{0.05}{6}\right)^{6(5)} \\ &= \text{RM}76\,961.76 \end{aligned}$$

Faedah Program 2/*Programme 2 interest*

$$\begin{aligned} &= \text{RM}76\,961.76 - \text{RM}60\,000 \\ &= \text{RM}16\,961.76 \end{aligned}$$

Program 1 adalah lebih produktif.
Programme 1 is more productive.

(b) (i)

Bulan/Month	Harga seunit/ Price per unit (RM)	Bilangan unit/ Number of unit
Januari/January	0.27	1 851.85
Februari/February	0.30	1 666.67
Mac/March	0.26	1 923.08
April	0.24	2 083.33
Mei/May	0.25	2 000.00
Jun/June	0.23	2 173.91

(ii) Jumlah pelaburan/*Total investment*

$$\begin{aligned} &= \text{RM}500 \times 6 \\ &= \text{RM}3\,000 \end{aligned}$$

$$\begin{aligned} \text{Jumlah bilangan unit}/&\text{Total number of units} \\ &= 1\,851.85 + 1\,666.67 + 1\,923.08 + 2\,083.33 \\ &\quad + 2\,000 + 2\,173.91 \\ &= 11\,698.84 \end{aligned}$$

Harga purata seunit/*Average price per unit*

$$\begin{aligned} &= \frac{\text{RM}3\,000}{11\,698.84} \\ &= \text{RM}0.2564 \end{aligned}$$

$$\begin{aligned} 0.28 \times 11\,698.84 - 0.2564 \times 11\,698.84 \\ &= \text{RM}276.09 \end{aligned}$$

Daniel mendapat keuntungan sebanyak
 RM276.09.

Daniel made a profit of RM276.09.