

RUMUS MATEMATIK
MATHEMATICAL FORMULAE

Rumus-rumus berikut boleh membantu anda untuk menjawab soalan. Simbol-simbol yang diberi adalah yang biasa digunakan.

The following formulae may be helpful in answering the questions. The symbols given are the ones commonly used

PERKAITAN
RELATIONS

- | | |
|--|--|
| <p>1 $a^m \times a^n = a^{m+n}$</p> <p>2 $a^m \div a^n = a^{m-n}$</p> <p>3 $(a^m)^n = a^{mn}$</p> <p>4 $A^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$</p> <p>5 Jarak / Distance = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$</p> <p>6 Titik Tengah / midpoint $(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$</p> <p>7 Purata laju = $\frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}$
 $\frac{\text{distance travelled}}{\text{time taken}}$
 Average speed = $\frac{\text{hasil tambah nilai data}}{\text{bilangan data}}$</p> <p>8 Min = $\frac{\text{sum of data}}{\text{number of data}}$</p> <p>9 Mean = $\frac{\text{hasil tambah (nilai titik tengah kelas} \times \text{kekerapan)}}{\text{hasil tambah kekerapan}}$
 $\frac{\text{sum of (midpoint} \times \text{frequency)}}{\text{sum of frequencies}}$</p> <p>10 Varians / Variance, $\sigma^2 = \frac{\sum (x - \bar{x})^2}{N} = \frac{\sum x^2}{N} - \bar{x}^2$</p> <p>11 Varians / Variance, $\sigma^2 = \frac{\sum f(x - \bar{x})^2}{\sum f} = \frac{\sum fx^2}{\sum f} - \bar{x}^2$</p> <p>12 Sisihan piawai / Standard deviation, $\sigma = \sqrt{\frac{\sum (x - \bar{x})^2}{N}} = \sqrt{\frac{\sum x^2}{N} - \bar{x}^2}$</p> <p>13 Sisihan piawai / Standard deviation, $\sigma = \sqrt{\frac{\sum f(x - \bar{x})^2}{\sum f}} = \sqrt{\frac{\sum fx^2}{\sum f} - \bar{x}^2}$</p> | <p>14 Teorem Pithagoras/Pythagoras Theorem
$c^2 = a^2 + b^2$</p> <p>15 $P(A) = \frac{n(A)}{n(S)}$</p> <p>16 $P(A') = 1 - P(A)$</p> <p>17 $m = \frac{y_2 - y_1}{x_2 - x_1}$</p> <p>18 $m = -\frac{\text{pintasan-y}}{\text{pintasan-x}}$
 $m = -\frac{\text{y-intercept}}{\text{x-intercept}}$</p> <p>19 Faedah mudah / Simple interest,
$I = Prt$</p> <p>20 Nilai matang / Maturity value
$MV = P \left(1 + \frac{r}{n} \right)^n$</p> <p>21 Jumlah bayaran balik / Total amount payable
$A = P + Prt$</p> |
|--|--|

BENTUK DAN RUANG *SHAPES AND SPACE*

- 1
Luas trapezium = $\frac{1}{2} \times \text{hasil tambah dua sisi selari} \times \text{tinggi}$
 $\text{Area of trapezium} = \frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$
- 2
Lilitan bulatan = $\pi d = 2\pi r$
 $\text{Circumference of circle} = \pi d = 2\pi r$
- 3
Luas bulatan = πr^2
 $\text{Area of circle} = \pi r^2$
- 4
Luas permukaan melengkung silinder = $2\pi r h$
 $\text{Curved surface area of cylinder} = 2\pi r h$
- 5
Luas permukaan sfera = $4\pi r^2$
 $\text{Surface area of sphere} = 4\pi r^2$
- 6
Isipadu prisma tegak = Luas keratan rentas $\times$ panjang
 $\text{Volume of right prism} = \text{cross sectional area} \times \text{length}$
- 7
Isipadu silinder = $\pi r^2 h$
 $\text{Volume of cylinder} = \pi r^2 h$
- 8
Isipadu kon = $\frac{1}{3} \pi r^2 h$
 $\text{Volume of cone} = \frac{1}{3} \pi r^2 h$
- 9
Isipadu sfera = $\frac{4}{3} \pi r^3$
 $\text{Volume of sphere} = \frac{4}{3} \pi r^3$
- 10
Isipadu piramid tegak = $\frac{1}{3} \times \text{luas tapak} \times \text{tinggi}$
 $\text{Volume of right pyramid} = \frac{1}{3} \times \text{base area} \times \text{height}$
- 11
Hasil tambah sudut pedalaman poligon = $(n - 2) \times 180^\circ$
 $\text{Sum of interior angles of a polygon} = (n - 2) \times 180^\circ$
- 12
$$\frac{\text{panjang lengkok}}{\text{lilitan bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$$
$$\frac{\text{arc length}}{\text{circumference of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$
- 13
$$\frac{\text{luas sektor}}{\text{luas bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$$
$$\frac{\text{area of sector}}{\text{area of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$
- 14
Faktor skala, $k = \frac{PA'}{PA}$
Scale factor, $k = \frac{PA'}{PA}$
- 15
Luas imej = $k^2 \times \text{luas objek}$
 $\text{Area of image} = k^2 \times \text{area of object}$

Jawab **semua** soalan
Answer **all** questions

1. Cari nilai bagi $(8 + 2.65) \times 0.18$ dan bundarkan jawapan betul kepada 3 angka bererti.
Find the value of $(8 + 2.65) \times 0.18$ and round the correct answer to 3 significant figures.
A 1.91
B 1.92
C 8.47
D 8.48

2. Diameter satu molekul minyak masak ialah 0.000000680 cm. Berapakah diameter, dalam m, molekul minyak masak dalam bentuk piawai?
The diameter of a cooking oil molecule is 0.000000680 cm. What is the diameter, in m, of a cooking oil molecule in standard form?
A 6.80×10^{-6}
B 6.80×10^{-7}
C 6.80×10^{-8}
D 6.80×10^{-9}

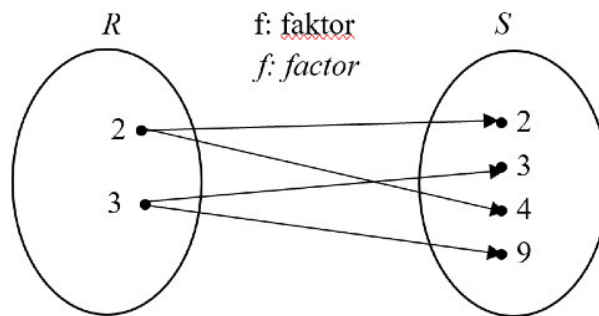
3. Antara urutan nombor berikut, yang manakah merupakan suatu jujukan?
Which of the following number sequence is a sequence?
A 100, 116, 132, 148, ...
B 1.0, -1.7, -2.4, 3.1, ...
C -15, 30, 60, -120, ...
D $\frac{1}{4}, 1\frac{1}{2}, 2\frac{1}{2}, 3\frac{1}{3}, \dots$

4. Dalam sebuah kelas, $\frac{1}{3}$ daripada murid lelaki ialah ahli Persatuan Matematik manakala 9 orang murid perempuan bukan ahli persatuan Matematik. Antara berikut, manakah merupakan ungkapan bagi jumlah ahli Persatuan Matematik di dalam kelas itu.

In a class, $\frac{1}{3}$ of the male students are members of the Mathematics Society while 9 female students are not members of the Mathematics Society. Which of the following is an expression for the number of members of the Mathematics Society in the class?

- A $\frac{1}{3}x - y - 9$
 B $\frac{1}{3}x - y + 9$
 C $\frac{1}{3}x + y - 9$
 D $\frac{1}{3}x + y + 9$

5. Rajah 1 di bawah menunjukkan hubungan antara R dan S.
Diagram 1 below shows the relation between R and S.



Rajah 1
 Diagram 1

Apakah jenis hubungan ini?
What is the type of relation?

- A Satu kepada satu
One-to-one
 B Satu kepada banyak
One-to-many
 C Banyak kepada satu
Many-to-one
 D Banyak kepada banyak
Many-to-many

6. Diberi $gh + 2 = h + g$. Ungkapkan h dalam sebutan g .
 Given $gh + 2 = h + g$. Express h in terms of g .

A $h = \frac{g-2}{g-1}$

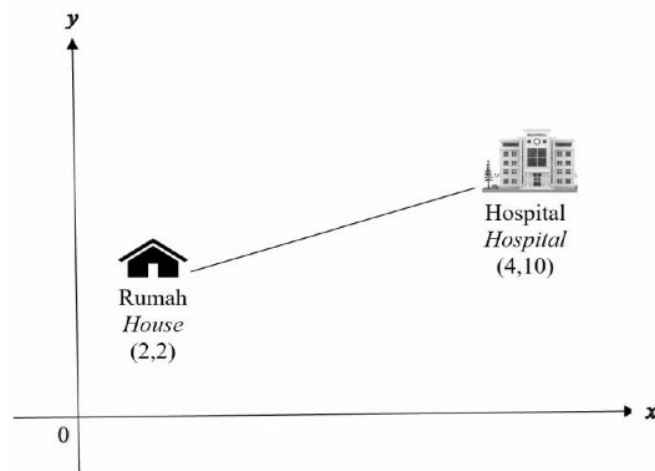
B $h = \frac{g+2}{g-1}$

C $h = \frac{g-1}{g+2}$

D $h = g + 2$

7. Rajah 2 menunjukkan suatu garis lurus yang menghubungkan rumah Rania dan hospital.

Diagram 2 shows a straight line connecting Rania's house and the hospital.



Rajah 2
 Diagram 2

Tentukan persamaan garis lurus rumah Rania dan hospital.

Determine the equation of a straight line between Rania's house and the hospital.

A $y = \frac{1}{4}x - 6$

B $y = -4x + 6$

C $y = 4x - 6$

D $y = 4x + 16$

8. Antara berikut yang manakah **tidak** benar.
Which of the following is **not** true.

A



sudut refleks
reflex angles

B



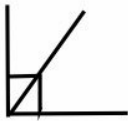
sudut pada garis lurus
angle on a straight line

C



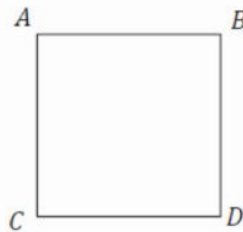
sudut putaran lengkap
complete rotation angle

D



Sudut penggenap
supplementary angles

9. Rajah 3 di bawah menunjukkan sebuah segi empat sama $ABCD$.
Diagram 3 below shows a square $ABCD$.



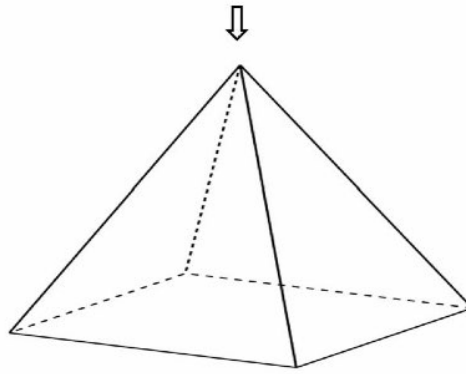
Rajah 3
Diagram 3

Diberi luas bagi segi empat sama $ABCD$ ialah 65.61 cm^2 . Tentukan perimeter bagi segi empat sama tersebut.

Given the area of square $ABCD$ is 65.61 cm^2 . Determine the perimeter of the square.

- A 11.4
B 16.2
C 32.4
D 32.8

10. Rajah 4 menunjukkan sebuah piramid di atas permukaan mengufuk.
Diagram 4 shows a pyramid on a horizontal surface.

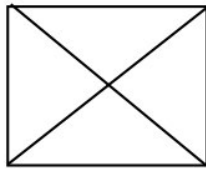


Rajah 4
 Diagram 4

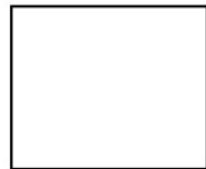
Antara berikut, yang manakah menunjukkan unjuran ortogon pepejal itu sebagaimana dilihat dari arah yang diberikan.

Which of the following shows the orthogonal projection of the solid as seen from the given direction?

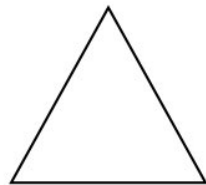
A



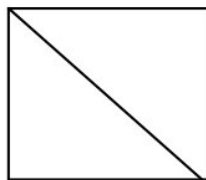
B



C



D



11. Satu huruf dipilih secara rawak daripada perkataan “SEMANGAT”. Cari kebarangkalian satu huruf konsonan dipilih.

A letter is chosen at random from the word “SEMANGAT”. Find the probability that a consonant letter is chosen.

- A $\frac{5}{7}$
 B $\frac{3}{7}$
 C $\frac{3}{8}$
 D $\frac{5}{8}$

12. Hitung nilai x bagi persamaan $9^x \times 3^{x+2} = \frac{1}{81}$

Calculate the value of x for the equation $9^x \times 3^{x+2} = \frac{1}{81}$

- A $x = -2$
 B $x = 2$
 C $x = 3$
 D $x = -\frac{2}{3}$

13. Ringkaskan:

Simplify:

$$10a^2b \times 2ab^{-3}$$

- A $5a^3b^{-2}$
 B $20a^3b^{-2}$
 C $20a^{-3}b^{-2}$
 D $20a^3b^2$

14. $2144_5 + 423_5 - 110_5 =$

- A 3012_5
- B 3102_5
- C 3122_5
- D 3222_5

15. Tentukan nilai p dan nilai q bagi persamaan berikut.
Determine the values of p and q for the following equation.

$$3120_4 = (3 \times 4^3) + (p \times 4^2) + (2 \times q)$$

- A $p = 1, q = 1$
- B $p = 1, q = 4$
- C $p = 2, q = 1$
- D $p = 2, q = 4$

16. Pendapatan aktif dan pasif bagi Eddy masing-masing adalah RM4 800 dan RM1 100. Perbelanjaan tetap dan perbelanjaan tidak tetapnya masing-masing adalah RM2 350 dan RM980. Eddy juga menyimpan 10% daripada pendapatannya. Hitung lebihan pendapatan bulanan Eddy.
The active and passive income of Eddy are RM4 800 and RM1 100, respectively. His fixed and variables expenses are RM2 350 and RM980, respectively. Eddy also saves 10% of his income. Calculate the surplus of Eddy's income.

- A RM1 980
- B RM2 060
- C RM2 090
- D RM2 570

17. Erin hendak membeli sebuah telefon bimbit baharu. Perkara berikut boleh dilakukannya untuk membuat simpanan **kecuali**

Erin wants to buy a new mobile phone. The following are things she can do to save money except

- A Mengurangkan belanja untuk melancong
Reducing travel expenses
- B Mengurangkan perbelanjaan dapur
Reducing grocery expenses
- C Bekerja sambilan
Working part time
- D Mengurangkan ansuran bulanan kereta
Reducing car instalment

18. Hafiz mempunyai polisi insurans perubatan utama dengan peratusan ko-insurans 80/20 serta deduktibel RMx. Dalam suatu kejadian, Hafiz telah dimasukkan ke hospital dan kos perubatan yang dikenakan oleh hospital ialah sebanyak RM35 000. Diberi bahawa kos perubatan yang ditanggung oleh syarikat insurans adalah sebanyak RM27 200 sahaja. Hitung nilai deduktibel yang dinyatakan dalam polisi insurans perubatannya itu.

Hafiz has a major medical insurance policy with an 80/20 co-insurance percentage and a RMx deductible. In one incident, Hafiz was hospitalized and the medical cost charged by the hospital was RM35 000. Given that the medical cost borne by the insurance company was only as much as RM27 200. Calculate the deductible value stated in his medical insurance policy.

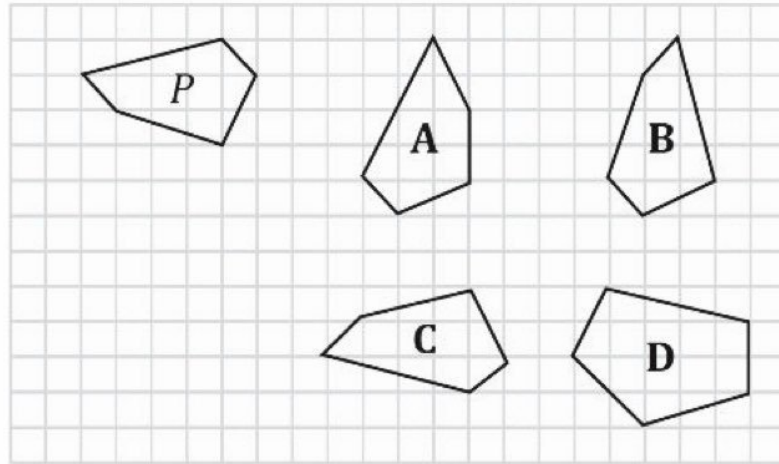
- A RM8 00
- B RM9 00
- C RM1 000
- D RM1 800

19. Ismail memiliki sebuah rumah kediaman di Seremban. Dia menerima bil cukai pintu daripada Majlis Bandaraya Seremban. Nilai tahunan bagi rumah itu ialah RM6 240 dan kadar cukai pintu ialah 7%. Hitung cukai pintu yang perlu dibayar kepada Majlis Bandaraya Seremban bagi setiap setengah tahun.

Ismail owns a residential house in Seremban. He receives property assessment tax bill from Seremban City Council. The annual value of the house is RM6 240 and the property assessment tax rate is 7%. Calculate the property assessment tax payable to Seremban City Council for each half year.

- A RM213.40
- B RM218.40
- C RM349.45
- D RM436.80

20. Rajah 5 menunjukkan lima pentagon, P , A , B , C dan D .
Diagram 5 shows five pentagons, P , A , B , C and D .

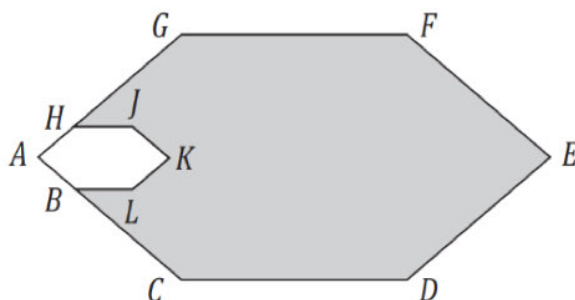


Rajah 5
Diagram 5

Pentagon yang manakah kongruen dengan pentagon P ?
Which pentagon is congruent to pentagon P ?

21. Rajah 6 di bawah menunjukkan heksagon $ABLKJH$ ialah imej bagi heksagon $ACDEFG$ di bawah suatu pembesaran berpusat di A . Diberi bahawa $BC = 2AB$ dan luas heksagon $ABLKJH$ ialah 23 cm^2 .

Diagram 6 below shows the hexagon $ABLKJH$ is the image of hexagon $ACDEFG$ under an enlargement with centre A . It is given that $BC = 2AB$ and the area of hexagon $ABLKJH$ is 23 cm^2 .



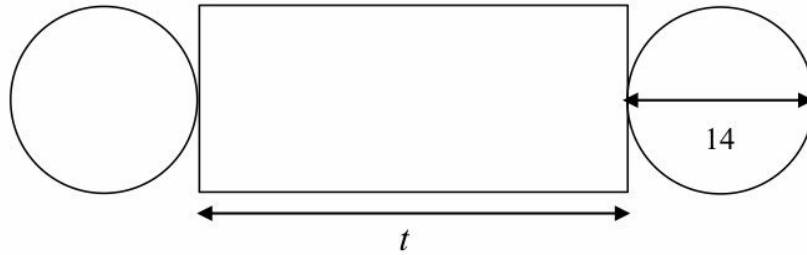
Rajah 6
Diagram 6

Hitung luas, dalam cm^2 , kawasan yang berlorek.
Calculate the area, in cm^2 , of the shaded region.

- A 46
B 69
C 107
D 184
22. Diberi $\sin \theta = -0.7615$. Cari nilai θ jika $\tan \theta > 0$.
Given $\sin \theta = -0.7615$. Find the value of θ if $\tan \theta > 0$.
- A 49.6°
B 229.6°
C 311.6°
D 319.6°

23. Rajah 7 menunjukkan sebuah silinder tertutup. Dengan menggunakan $\pi = \frac{22}{7}$, hitung tinggi, t silinder jika jumlah luas permukaan ialah 1 188 cm².

Diagram 7 shows a closed cylinder. Using $\pi = \frac{22}{7}$, calculate the height, t , of the cylinder if the total surface area is 1 188 cm².



Rajah 7
Diagram 7

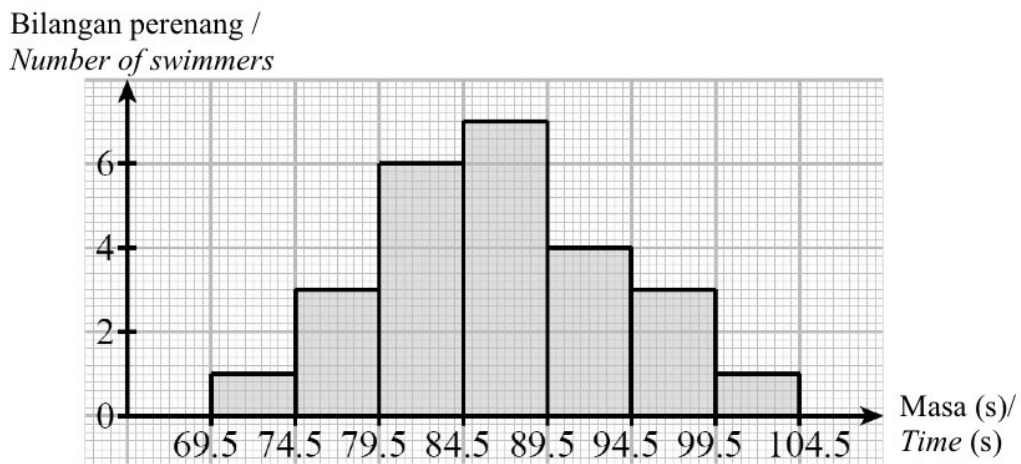
- A 15
B 20
C 25
D 30
24. Data boleh diklasifikasikan kepada data kategori dan data numerik. Manakah antara berikut merupakan data numerik?
Data can be classified into categorical data and numerical data. Which one is the numerical data?

- A Bilangan setem yang dikumpul
Number of stamps collected
B Warna kereta
Car colour
C Perisa gula-gula
Candy flavour
D Jantina murid
Gender of the students

25. Pilih ruang sampel yang mewakili peristiwa bergabung di bawah.
Select the sample space that represents the combined event below.

Jantina anak bagi keluarga yang mempunyai dua orang anak.
The children's gender for the family of two children.

- A $\{(L, L), (L, P), (P, L), (P, P)\}$
 B $\{(L, P), (P, L)\}$
 C $\{(L, L), (P, P)\}$
 D $\{(L, P)\}$
26. Rajah 8 menunjukkan histogram bagi mewakili masa yang diambil oleh 25 orang perenang dalam acara 100 m Gaya Kuak Lentang.
Diagram 8 shows histogram representing the time taken by 25 swimmers in the 100 m Backstroke event.



Rajah 8
 Diagram 8

Nyatakan bentuk taburan histogram bagi acara tersebut.
State the distribution shape of the histogram for the event.

- A Seragam
Uniform-shaped
 B Bentuk loceng
Bell-shaped
 C Pencong ke kanan
Right-skewed
 D Pencong ke kiri
Left-skewed

27. Pak Hamid telah mencatatkan jisim buah nenas yang dipetik dari kebunnya di Nenasi. Jadual kekerapan berikut menunjukkan data yang diperolehnya.
Pak Hamid had recorded the mass of pineapples that he harvested from his farm in Nenasi. The following frequency table show the data that he obtained.

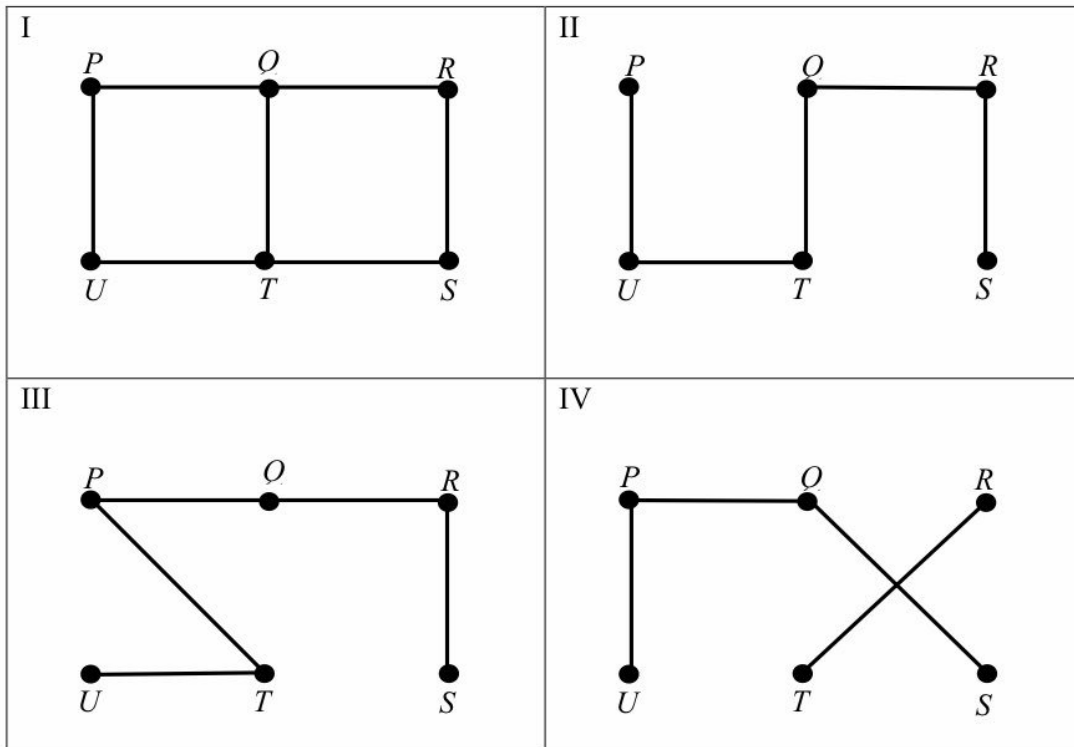


Jisim / Mass (g)	Bilangan nenas / Number of pineapples
400 – 499	6
500 – 599	12
600 – 699	16
700 – 799	24
800 – 899	14
900 – 999	8

Tentukan julat bagi data tersebut.
Determine the range for the data.

- A 300 g
- B 400 g
- C 500 g
- D 600 g

28. Jadual menunjukkan beberapa jenis graf.
The table shows several types of graphs.



Antara berikut, yang manakah merupakan pokok?

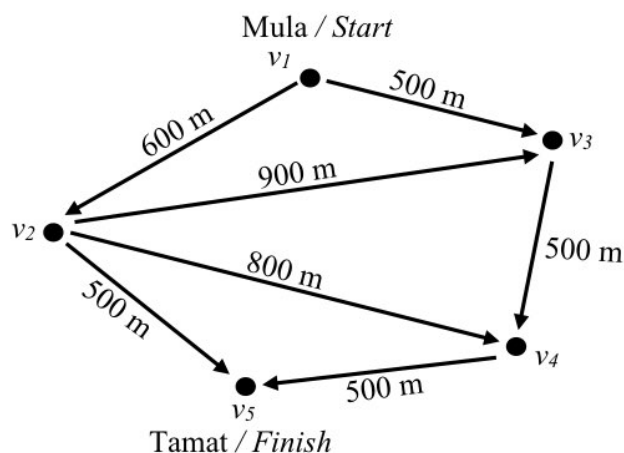
Which of the following is a tree?

- A** II sahaja
 II only
- B** II dan III
 II and III
- C** II, III dan IV
 II, III and IV
- D** I, II, III dan IV
 I, II, III and IV



29. Rajah 9 menunjukkan pilihan laluan sehala Izarul untuk menjalani latihan larian. Bucu v_1 ialah tempat permulaan dan bucu v_5 ialah tempat terakhir sebelum dia pulang ke rumah.

Diagram 9 shows Izarul's one-way route choices for running practice. Vertex v_1 is the starting point and vertex v_5 is the final point before he returns home.



Rajah 9
Diagram 9

Hitung jarak terpendek, dalam km, laluan sehala yang dilalui Izarul.

Calculate the shortest distance, in km, of the one-way route taken by Izarul.

- A 1.1 km
B 1.3 km
C 1.4 km
D 2.5 km
30. Antara berikut, manakah pernyataan yang benar?
Which of the following is a true statement?
- A $2 < 1$
B Semua piramid mempunyai tapak segi empat sama
All pyramids have square base
C Segi empat sama mempunyai dua paksi simetri
Squares have two symmetrical axes
D 2 adalah nombor perdana terkecil
2 is the smallest prime number



31. Tentukan kesahan dan kemunasabahan bagi hujah berikut.

Determine the validity and soundness of the following arguments.

Premis 1	: Semua gandaan 5 ialah nombor genap
Premise 1	: <i>All multiples of 5 are even numbers</i>
Premis 2	: 60 ialah gandaan 5
Premise 2	: <i>60 is a multiple of 5</i>
Kesimpulan	: 60 ialah nombor genap
Conclusion	: <i>60 is an even number</i>

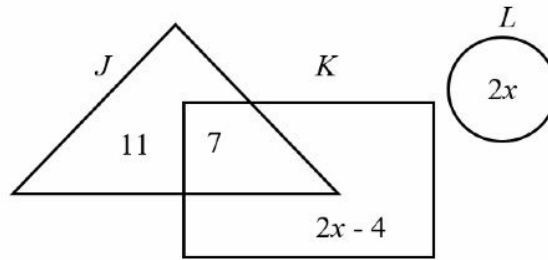
- A Hujah ini tidak sah dan tidak munasabah
This argument is invalid and not sound
- B Hujah ini tidak sah tetapi munasabah
This argument is invalid and sound
- C Hujah ini sah tetapi tidak munasabah
This argument is valid but not sound
- D Hujah ini sah dan munasabah
This argument is valid and sound

32. Diberi bahawa set $P = \{2, 4, 6, 8\}$, set $Q = \{4, 8, 12, 16\}$ dan set $R = \{10, 12, 14\}$ dengan keadaan set semesta $\xi = P \cup Q \cup R$. Senaraikan semua unsur bagi $(Q \cup R)'$.
It is given that set $P = \{2, 4, 6, 8\}$, set $Q = \{4, 8, 12, 16\}$ and set $R = \{10, 12, 14\}$ such that the universal set $\xi = P \cup Q \cup R$. List all the elements of set $(Q \cup R)'$.

- A $\{2, 4\}$
- B $\{2, 6\}$
- C $\{2, 4, 6\}$
- D $\{2, 6, 8\}$

33. Rajah 10 ialah gambar rajah Venn yang menunjukkan bilangan unsur dalam set J , set K dan set L .

Diagram 10 is a Venn diagram showing the number of elements in set J , set K and set L .



Rajah 10
Diagram 10

Diberi bahawa set semesta $\xi = J \cup K \cup L$ dan $n(J' \cap L') = n(J)$.

Cari $n(K)$.

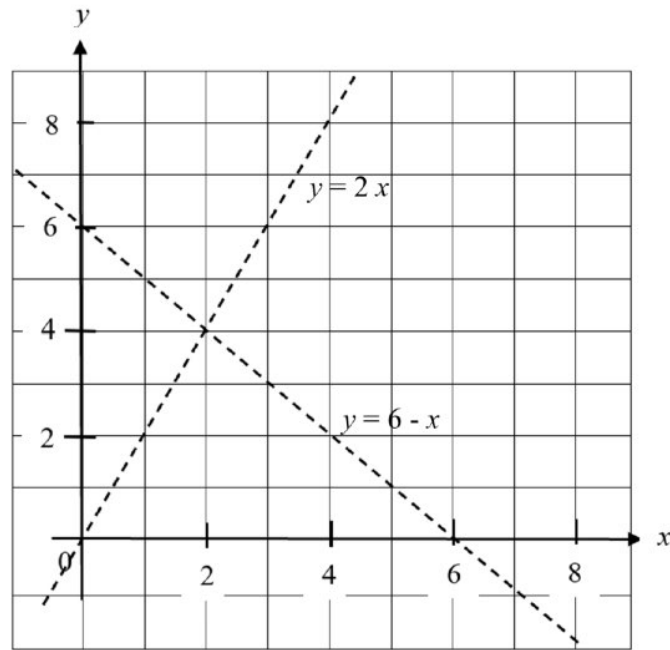
It is given that the universal set $\xi = J \cup K \cup L$ and $n(J' \cap L') = n(J)$.

Find $n(K)$.

- A 11
- B 18
- C 22
- D 25

34. Rajah 11 merupakan satu satah Cartesian yang mengandungi dua garis bagi persamaan $y = 6 - x$ dan $y = 2x$.

Diagram 11 shows a Cartesian plane containing two lines with the equations $y = 6 - x$ and $y = 2x$.



Rajah 11
Diagram 11

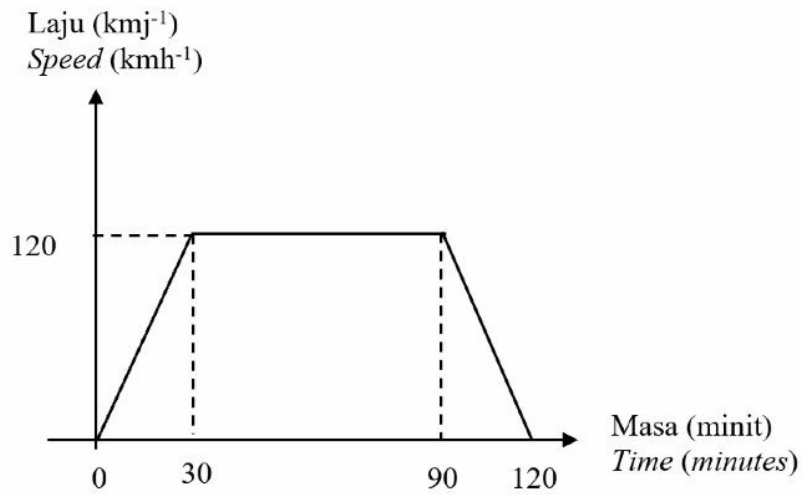
Antara titik berikut, yang manakah tidak memuaskan ketaksamaan $y < 6 - x$ dan $y < 2x$?

Which of the following points is not satisfies the inequalities $y < 6 - x$ and $y < 2x$?

- A (2, 4)
- B (2, 2)
- C (3, 2)
- D (4, 1)

35. Rajah 12 menunjukkan graf laju-masa bagi pergerakan sebuah kereta dalam tempoh 120 minit.

Diagram 12 shows the speed-time graph of a car for a period of 120 minutes.



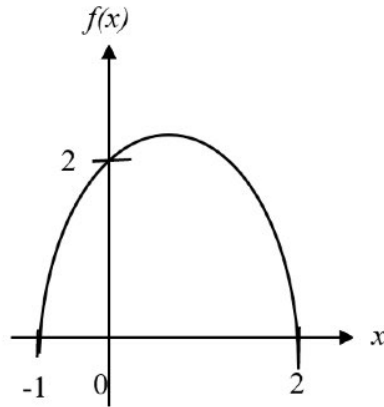
Rajah 12
Diagram 12

Hitung jumlah jarak dalam km, yang dilalui oleh kereta itu.

Calculate the total distance in km, travelled by car.

- A 125
- B 155
- C 165
- D 180

36. Rajah 13 menunjukkan suatu graf pada satah Cartes.
Diagram 13 shows a graph on a Cartesian plane.



Rajah 13
 Diagram 13

Antara berikut yang manakah persamaan bagi graf itu?
Which of the following is the equation of the graph?

- A $f(x) = x^2 + x + 2$
 B $f(x) = x^2 + x - 2$
 C $f(x) = -x^2 + x + 2$
 D $f(x) = -x^2 + x - 2$

37. Hubungan antara pemboleh ubah P , Q dan R ditunjukkan oleh persamaan $\frac{PQ^{\frac{1}{3}}}{R} = k$.
 Nyatakan hubungan antara P , Q dan R dalam perkataan.

The relation between variables P , Q and R is shown in the equation $\frac{PQ^{\frac{1}{3}}}{R} = k$.

State the relation of P , Q and R in words.

- A P berubah secara langsung dengan R dan secara songsang dengan kuasa tiga Q .
 P varies directly as R and inversely as the cube of Q .
- B P berubah secara langsung dengan kuasa tiga Q dan secara songsang dengan R .
 P varies directly as the cube of Q and inversely as R .
- C P berubah secara langsung dengan R dan secara songsang dengan punca kuasa tiga Q .
 P varies directly as R and inversely as the cube root of Q .
- D P berubah secara langsung dengan punca kuasa tiga Q dan secara songsang dengan R .
 P varies directly as the cube root of Q and inversely as R .

38. Masa, t jam yang diambil untuk membina garisan padang berubah secara langsung dengan luas padang, P dan secara songsang dengan bilangan pekerja, N . Diberi 4 orang pekerja memerlukan masa 8 jam untuk membina garisan padang seluas $8 \times 10^2 \text{ m}^2$. Hitung masa yang diambil oleh 6 orang pekerja untuk membina garisan padang seluas $9 \times 10^2 \text{ m}^2$.

The time, t hours, taken to mark the lines of a field varies directly as the area of the field, P , and inversely as the number of workers, N . Given that 4 workers take 8 hours to mark the lines of a field with an area of $8 \times 10^2 \text{ m}^2$. Calculate the time taken by 6 workers to mark the lines of a field with an area of $9 \times 10^2 \text{ m}^2$.

- A 6
- B 8
- C 10
- D 12

39. Diberi matriks $A = \begin{pmatrix} 5 & -6 \\ 17 & 9 \end{pmatrix}$ dan matriks $B = \begin{pmatrix} 3 & -8 & 4 \\ 17 & 3 & -1 \end{pmatrix}$. Hitung $a_{12} + b_{21}$.
Given the matrix $A = \begin{pmatrix} 5 & -6 \\ 17 & 9 \end{pmatrix}$ and matrix $B = \begin{pmatrix} 3 & -8 & 4 \\ 17 & 3 & -1 \end{pmatrix}$. Calculate $a_{12} + b_{21}$.

- A -3
- B -4
- C 11
- D 12

40. Diberi $\begin{pmatrix} 3 & -1 \\ 5 & h \end{pmatrix} \begin{pmatrix} 1 \\ 4 \end{pmatrix} = \begin{pmatrix} -1 \\ 17 \end{pmatrix}$, hitung nilai h .
Given $\begin{pmatrix} 3 & -1 \\ 5 & h \end{pmatrix} \begin{pmatrix} 1 \\ 4 \end{pmatrix} = \begin{pmatrix} -1 \\ 17 \end{pmatrix}$, calculate the value of h .

- A 0
- B 1
- C 2
- D 3