

SULIT

1449/1

**Matematik
Kertas 1
Ogos/Sept
2010
1 ¼ jam**

Nama Pelajar :

Tingkatan :



**JABATAN PELAJARAN KELANTAN
DENGAN KERJASAMA
PERSIDANGAN KEBANGSAAN PENGETUA-PENGETUA
SEKOLAH MENENGAH MALAYSIA
CAWANGAN KELANTAN**

**PEPERIKSAAN PERCUBAAN SPM
TINGKATAN 5 (2010)**

**MATEMATIK
KERTAS 1**

Masa : Satu Jam Lima Belas Minit

JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU

1. Kertas soalan ini adalah dalam dwibahasa.
2. Soalan dalam bahasa Inggeris mendahului soalan yang sepadan dalam bahasa Melayu.
3. Calon dikehendaki membaca maklumat di halaman 2 kertas soalan ini.

INFORMATION FOR CANDIDATES.
MAKLUMAT UNTUK CALON.

1. This question paper consists of 40 questions.

Kertas soalan ini mengandungi 40 soalan.

2. Answer all questions.

Jawab semua soalan.

3. Answer each question by blackening the correct space on the objective answer sheet provided.

Jawab setiap soalan dengan menghitamkan ruangan yang betul pada kertas jawapan objektif.

4. Blacken only one space for each question.

Hitamkan satu ruangan sahaja bagi setiap soalan.

5. If you wish to change your answer, erase the blackened mark that you have made. Then blacken the space for the new answer.

Sekiranya anda hendak menukarkan jawapan, padamkan tanda yang telah dibuat. Kemudian hitamkan jawapan yang baru.

6. The diagrams in the questions provided are not drawn to scale unless stated.

Rajah yang mengiringi soalan tidak dilukiskan mengikut skala kecuali dinyatakan.

7. A list of formulae is provided on pages 3 to 5.

Satu senarai rumus disediakan di halaman 3 hingga 5.

8. A booklet of four-figure mathematical tables is provided.

Sebuah buku sifir matematik empat angka disediakan.

9. You may use a non-programmable scientific calculator.

Anda dibenarkan menggunakan kalkulator saintifik yang tidak boleh diprogramkan.

MATHEMATICAL FORMULAE
RUMUS MATEMATIK

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

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

RELATIONS
PERKAITAN

1	$a^m \times a^n = a^{m+n}$	10	Pythagoras Theorem Teorem Pithagoras
2	$a^m + a^n = a^{m+n}$		$c^2 = a^2 + b^2$
3	$(a^m)^n = a^{mn}$	11	$P(A) = \frac{n(A)}{n(S)}$
4	$A^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$	12	$P(A') = 1 - P(A)$
5	Distance / Jarak $= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	13	$m = \frac{y_2 - y_1}{x_2 - x_1}$
6	Midpoint / Titik tengah $(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$	14	$m = -\frac{y\text{-intercept}}{x\text{-intercept}}$ $m = -\frac{\text{pintasan-}y}{\text{pintasan-}x}$
7	Average speed = $\frac{\text{distance travelled}}{\text{time taken}}$ <i>Purata laju = $\frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}$</i>		
8	Mean = $\frac{\text{sum of data}}{\text{number of data}}$ <i>Min = $\frac{\text{hasil tambah nilai data}}{\text{bilangan data}}$</i>		
9	Mean = $\frac{\text{sum of (class mark} \times \text{frequency)}}{\text{sum of frequencies}}$		

SHAPES AND SPACE
BENTUK DAN RUANG

- 1 Area of trapezium = $\frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$
Luas trapezium = $\frac{1}{2} \times \text{hasil tambah dua sisi selari} \times \text{tinggi}$
- 2 Circumference of circle = $\pi d = 2\pi r$
Lilitan bulatan = $\pi d = 2\pi r$
- 3 Area of circle = πr^2
Luas bulatan = πr^2
- 4 Curved surface area of cylinder = $2\pi rh$
Luas permukaan melengkung silinder = $2\pi rt$
- 5 Surface area of sphere = $4\pi r^2$
Luas permukaan sfera = $4\pi r^2$
- 6 Volume of right prism = cross sectional area \times length
Isipadu prisma tegak = luas keratan rentas \times panjang
- 7 Volume of cylinder = $\pi r^2 h$
Isipadu silinder = $\pi r^2 t$
- 8 Volume of cone = $\frac{1}{3} \pi r^2 h$
Isipadu kon = $\frac{1}{3} \pi r^2 t$
- 9 Volume of sphere = $\frac{4}{3} \pi r^3$
Isipadu sfera = $\frac{4}{3} \pi r^3$
- 10 Volume of right pyramid = $\frac{1}{3} \times \text{base area} \times \text{height}$
Isipadu piramid tegak = $\frac{1}{3} \times \text{luas tapak} \times \text{tinggi}$
- 11 Sum of interior angles of polygon
Hasil tambah sudut pedalaman poligon
 $= (n - 2) \times 180^\circ$

- 12 $\frac{\text{arc length}}{\text{circumference of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$
 $\frac{\text{panjang lengkung}}{\text{lilitan bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$
- 13 $\frac{\text{area of sector}}{\text{area of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$
 $\frac{\text{luas sektor}}{\text{luas bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$
- 14 Scale factor, $k = \frac{PA'}{PA}$
Faktor skala, $k = \frac{PA'}{PA}$
- 15 Area of image = $k^2 \times \text{area of object}$
Luas imej = $k^2 \times \text{luas objek}$

Jawab semua soalan.

- 1 Find the value of $(12 + 0.82) \times 25$, and round off the answer correct to three significant figures.

Cari nilai $(12 + 0.82) \times 25$, dan bundarkan jawapan itu betul kepada tiga angka bererti.

- A 320.5
B 321.0
C 320
D 321

- 2 Express 2.151×10^{-4} as a single number.

Ungkapkan 2.151×10^{-4} sebagai satu nombor tunggal.

- A 0.0002151
B 0.0000215
C 21510
D 2151

- 3 $7.6 \times 10^{11} - 4.1 \times 10^{10} =$

- A 3.5×10^{10}
B 3.5×10^{11}
C 7.19×10^{10}
D 7.19×10^{11}

- 4 A rectangular floor with a width of 900 cm and a length of 1000 cm will be covered with tiles. Each tile is a square of side 20 cm.

Calculate the number of tiles required to cover the floor fully.

Sebuah lantai berbentuk segiempat tepat dengan lebar 900 cm dan panjang 1000 cm akan ditutupi dengan jubin. Setiap keping jubin berbentuk segiempat sama dengan sisi 20 cm.

Hitung bilangan jubin yang diperlukan untuk menutupi lantai itu sepenuhnya.

- A 2.25×10^3
B 2.25×10^4
C 4.5×10^3
D 4.5×10^4

- 5 Express $4 \times 5^3 + 2 \times 5^2 + 5$ as a number in base five.

Ungkapkan $4 \times 5^3 + 2 \times 5^2 + 5$ sebagai suatu nombor dalam asas lima.

- A 321_5
B 421_5
C 4201_5
D 4210_5

- 6 $110110_2 + 1111_2 =$

- A 1000101_2
B 1110101_2
C 111001_2
D 111101_2

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7 In Diagram 1, $PQRSTUW$ and $JKLST$ are regular polygons.

Dalam Rajah 1, $PQRSTUW$ dan $JKLST$ ialah poligon sekata.

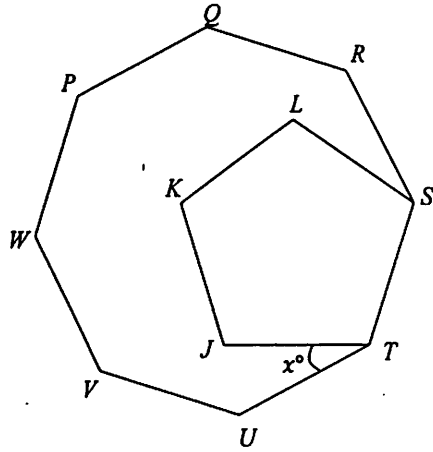


Diagram 1
Rajah 1

Find the value of x .

Cari nilai x .

- A 27
- B 45
- C 54
- D 72

SULIT

(9)

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8 In Diagram 2, AC and GE are two parallel lines.

Dalam Rajah 2, AC dan GE ialah dua garis selari.

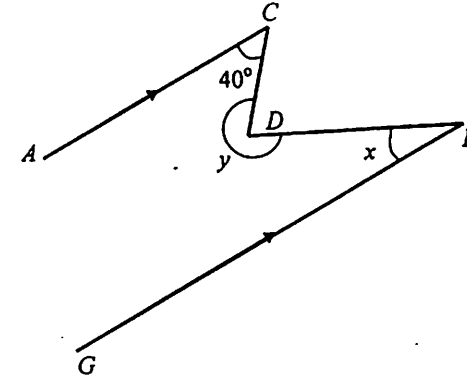


Diagram 2
Rajah 2

Find the value of $x + y$.

Carikan nilai $x + y$.

- A 140°
- B 360°
- C 320°
- D 180°

SULIT

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9 In Diagram 3, NL is the tangent to the circles with centre P and centre O at points N and L respectively.

Given PJO is a straight line.

Dalam Rajah 3, NL ialah tangen kepada bulatan berpusat P dan bulatan berpusat O pada titik N dan L masing-masing.

Diberi PJO ialah garis lurus.

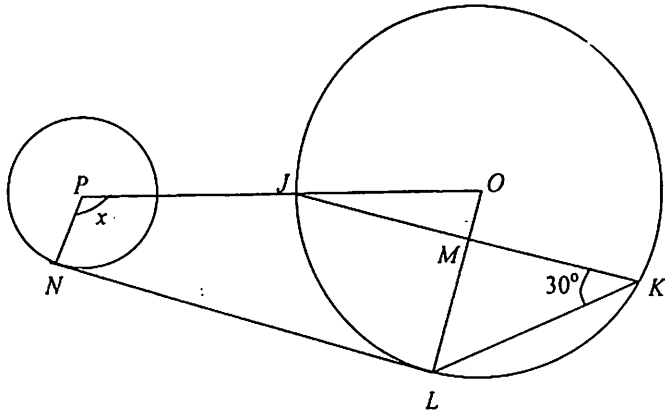


Diagram 3
Rajah 3

Find the value of x .

Carikan nilai x .

- A 60°
- B 90°
- C 120°
- D 150°

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10 Diagram 4 shows two quadrilaterals P and Q drawn on a Cartesian plane.

Rajah 4 menunjukkan dua sisi empat P dan Q dilukis di atas satah Cartesian.

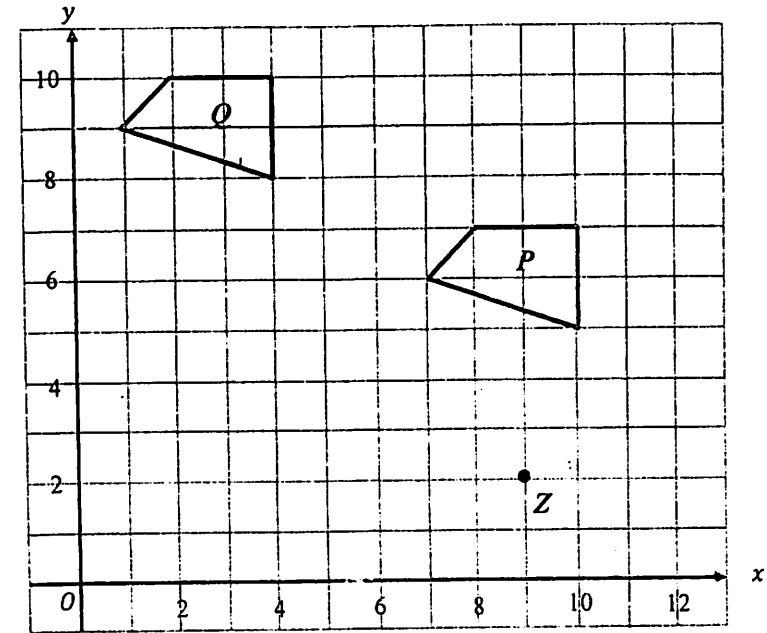


Diagram 4
Rajah 4

It is given that quadrilateral Q is the image of quadrilateral P under transformation X . Find the coordinate image of point Z under transformation X .

Diberi bahawa sisi empat Q adalah imej bagi sisi empat P di bawah penjelmaan X . Cari koordinat imej bagi titik Z di bawah penjelmaan X .

- A $(-6, 3)$
- B $(3, 5)$
- C $(3, 6)$
- D $(5, 3)$

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- 11 Diagram 5 shows two circles, PQR and PST , with centre A and centre B respectively drawn on a square grid.

Rajah 5 menunjukkan dua bulatan, PQR dan PST masing-masing berpusat A dan B dilukis pada grid segi empat sama.

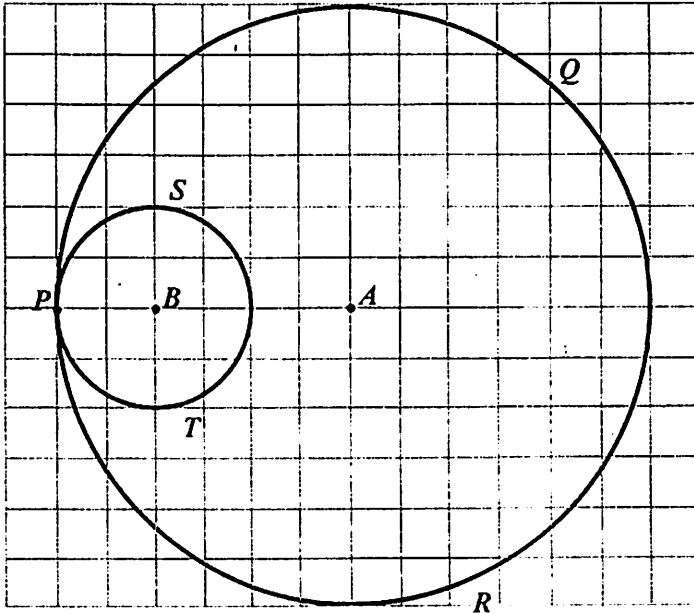


Diagram 5
Rajah 5

Circle PST is the image of the circle PQR under an enlargement with centre P . Find the scale factor of the enlargement.

Bulatan PST adalah imej bagi bulatan PQR di bawah pembesaran pada pusat P . Cari faktor skala pembesaran tersebut.

- A $\frac{1}{6}$
- B $\frac{1}{3}$
- C 3
- D 6

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- 12 Diagram 6 shows a right angled triangle ABC . AC and KBL are two parallel lines.

Rajah 6 menunjukkan segi tiga bersudut tegak ABC . AC dan KBL ialah dua garis selari.

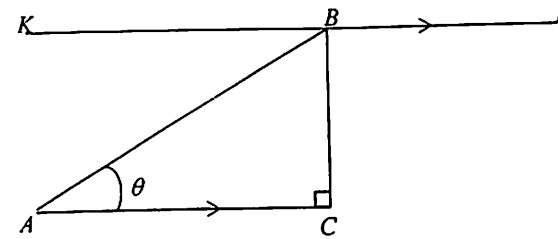


Diagram 6
Rajah 6

Given that $\tan \theta = \frac{5}{12}$, find $\cos \angle ABL$

Diberi $\tan \theta = \frac{5}{12}$, cari kos $\angle ABL$

- A $\frac{5}{13}$
- B $-\frac{5}{13}$
- C $-\frac{12}{13}$
- D $\frac{12}{13}$

14 Diagram 8 shows a cuboid with a rectangular base PQRS.

Rajah 8 menunjukkan sebuah kuboid dengan tapak segiempat tepat PQRS.

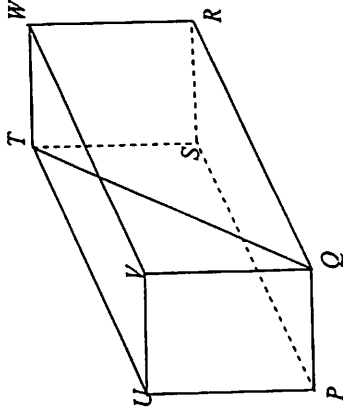


Diagram 8
Rajah 8

Name the angle between the line QT and the plane PQRS.

Namakan sudut di antara garis QT dengan satah PQRS

- A $\angle TQR$
- B $\angle TPU$
- C $\angle TPS$
- D $\angle TQS$

13 Diagram 7 represents the graph of a trigonometric function $y = \cos x^\circ$ for $0^\circ \leq x^\circ \leq 360^\circ$, state the value of P.

Rajah 7 menunjukkan lakaran graf fungsi trigonometri $y = \cos x^\circ$ bagi $0^\circ \leq x^\circ \leq 360^\circ$, nyatakan nilai P.

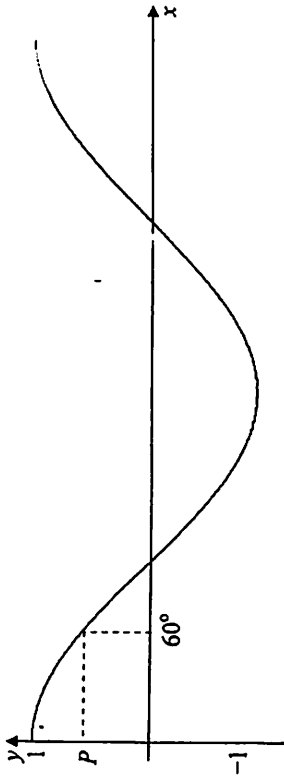


Diagram 7
Rajah 7

- A 0.866
- B 0.500
- C 1.732
- D 0.577

15 In Diagram 9, PQ and RS are two vertical poles on a horizontal plane.

Dalam Rajah 9, PQ dan RS ialah dua batang tiang tegak pada satah mengufuk.

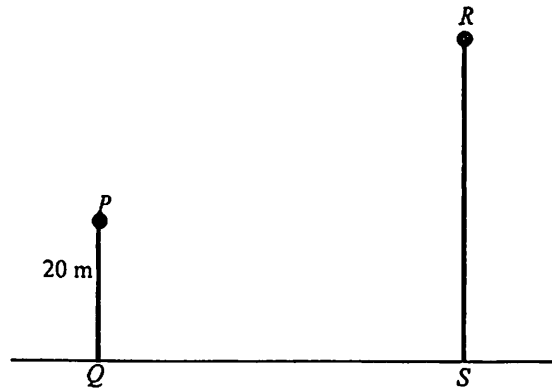


Diagram 9
Rajah 9

Given that the height of the pole RS is twice the height of the pole PQ . The angle of elevation of R from P is 32° .

Calculate, in m, the distance between the two poles.

Diberi tinggi tiang RS adalah dua kali ganda tinggi tiang PQ . Sudut dongak puncak R dari P ialah 32° .

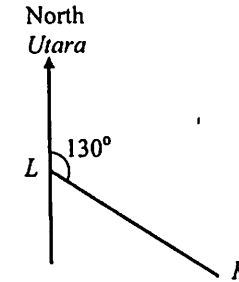
Hitung, dalam m, jarak antara dua tiang tersebut.

- A 12.50
- B 23.58
- C 32.01
- D 37.74

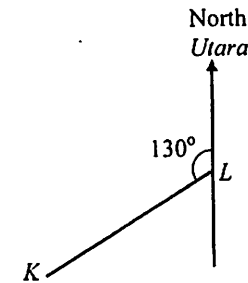
16 Point K and point L lie on a horizontal plane. The bearing of K from L is 130° . Which of the following diagrams shows the position of K and of L ?

Titik K dan titik L terletak di atas satah mengufuk. Bearing K dari L ialah 130° . Antara rajah berikut, yang manakah kedudukan bagi K dan L ?

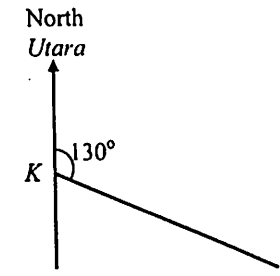
A



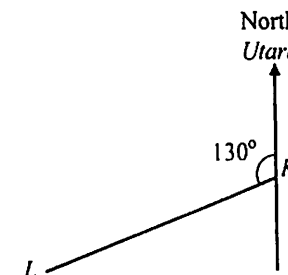
B



C



D



- 17 An aeroplane flies along the equator from town $P(0^\circ, 30^\circ W)$ to town $Q(0^\circ, 50^\circ E)$. Find the distance, in nautical mile, traveled by the aeroplane.

Sebuah kapal terbang, terbang di sepanjang khatulistiwa dari bandar $P(0^\circ, 30^\circ B)$ ke bandar $Q(0^\circ, 50^\circ T)$.

Cari jarak, dalam batu nautikal, yang dilalui oleh kapal terbang itu.

- A 1 800
- B 3 000
- C 4 800
- D 10 800

- 18 In Diagram 10, N is the North Pole, S is the South Pole and NOS is the axis of the earth.

Dalam Rajah 10, U ialah Kutub Utara, S ialah Kutub Selatan dan UOS ialah paksi bumi.

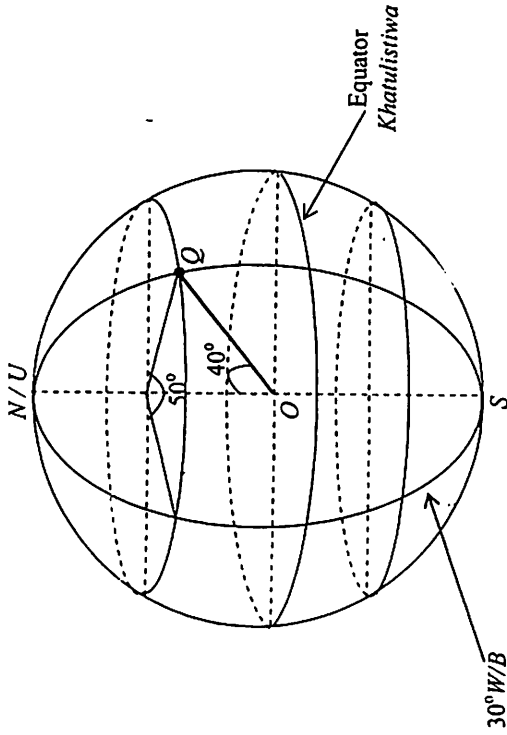


Diagram 10
Rajah 10

State the position of point Q .

Nyatakan kedudukan titik Q .

- A $(50^\circ N, 50^\circ E)$
 $(50^\circ U, 50^\circ T)$
- B $(50^\circ N, 20^\circ E)$
 $(50^\circ U, 20^\circ T)$
- C $(40^\circ N, 20^\circ E)$
 $(40^\circ U, 20^\circ T)$
- D $(40^\circ N, 50^\circ E)$
 $(40^\circ U, 50^\circ T)$

19 $(2m + 3n)^2 - 4n(3m - 2n) =$

- A $4m^2 + n^2$
- B $4m^2 + 17n^2$
- C $4m^2 - 12mn - 9n^2$
- D $4m^2 - 12mn + 8n^2$

20 Express $\frac{p+1}{2p-3} - \frac{2}{5}$ as a single fraction in its simplest form.

Ungkapkan $\frac{p+1}{2p-3} - \frac{2}{5}$ sebagai satu pecahan tunggal dalam bentuk termudah.

A $\frac{p+11}{5(2p-3)}$

B $\frac{3p+8}{5(2p-3)}$

C $\frac{p-1}{5(2p-3)}$

D $\frac{p+7}{5(2p-3)}$

21 Given $\frac{5x}{x+3y} = \frac{y}{3}$, express x in terms of y .

Diberi $\frac{5x}{x+3y} = \frac{y}{3}$, ungkapkan x dalam sebutan y .

A $x = \frac{y}{15-y}$

B $x = \frac{y^2}{15-y}$

C $x = \frac{3y}{15-y}$

D $x = \frac{3y^2}{15-y}$

22 Given $\frac{k+9}{7} = \frac{2}{3}$, calculate the value of k .

Diberi $\frac{k+9}{7} = \frac{2}{3}$, hitung nilai k .

A $\frac{5}{3}$

B $-\frac{5}{3}$

C $\frac{13}{3}$

D $-\frac{13}{3}$

23 $(32 \times 7^{10})^{\frac{1}{5}} \div (2^{-2} \times 7^4) =$

A $\frac{1}{98}$

B $\frac{8}{49}$

C $\frac{49}{8}$

D $\frac{49}{2}$

24 $m^{\frac{1}{5}} =$

A $\sqrt[5]{m^4}$

B $\sqrt[5]{m^5}$

C $(\sqrt{m^5})^4$

D $(\sqrt{m^4})^5$

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25 Find the solution for $5x - 8 < x < 4x + 9$.

Cari penyelesaian bagi $5x - 8 < x < 4x + 9$.

- A $2 < x < 3$
- B $-2 < x < 3$
- C $-3 < x < -2$
- D $-3 < x < 2$

26 List all the integer values of x that satisfy both the simultaneous linear inequalities

$\frac{x}{2} - 1 \leq 3$ and $16 - 3x < 4$.

Senaraikan semua nilai integer x yang memuaskan kedua-dua ketaksamaan linear

serentak $\frac{x}{2} - 1 \leq 3$ dan $16 - 3x < 4$.

- A 5, 6, 7
- B 4, 5, 6, 7
- C 5, 6, 7, 8
- D 4, 5, 6, 7, 8

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27 Diagram 11 is a pictogram which shows the number of bicycles sold over a period of six months.

Rajah 11 ialah piktogram yang menunjukkan bilangan basikal yang dijual dalam tempoh enam bulan.


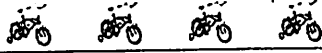
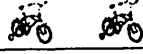
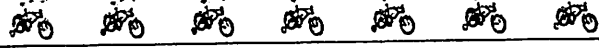
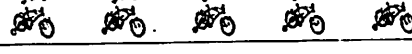
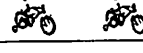
January Januari	
February Februari	
March Mac	
April April	
May Mei	
June Jun	

Diagram 11
Rajah 11

If the total number of bicycles is 200, calculate the number of bicycles sold after March.
Jika jumlah basikal ialah 200, hitungkan bilangan basikal yang dijual selepas bulan Mac.

- A 112
- B 120
- C 128
- D 160

28 Diagram 12 is a bar chart which shows the number of visitors to a strawberry park in four days. The entrance fees for an adult and a child are RM3.50 and RM2.50 respectively.

Rajah 12 ialah carta bar yang menunjukkan bilangan pelawat ke sebuah taman strawberi dalam masa empat hari. Bayaran masuk bagi seorang dewasa dan kanak-kanak masing-masing ialah RM3.50 dan RM2.50.

Number of visitors
Bilangan pelawat

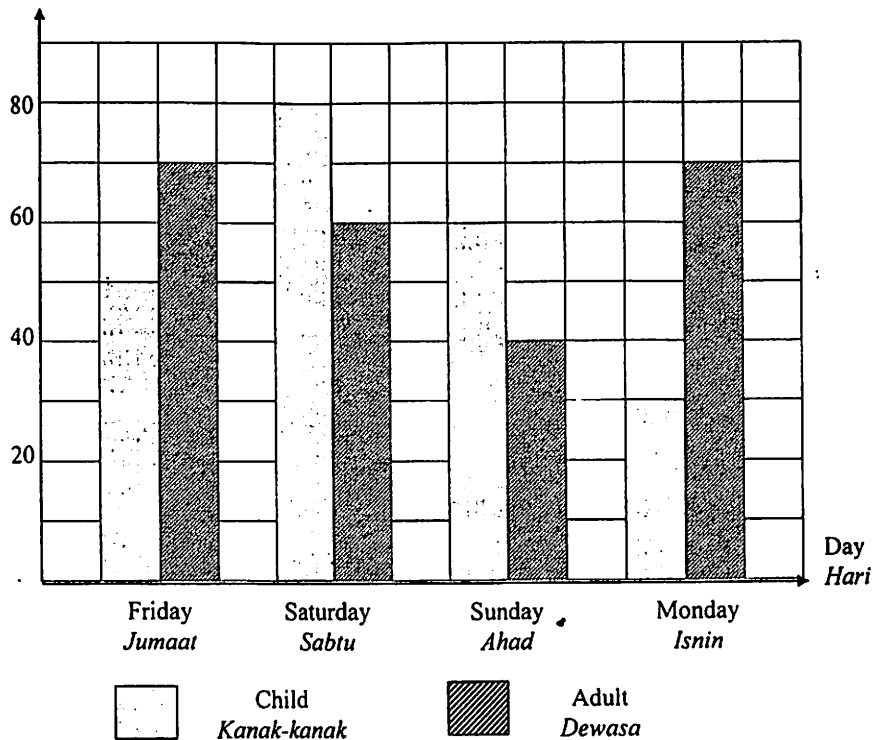


Diagram 12
Rajah 12

Find the difference in the total amount collected from adults and from children during the four days.

Cari beza jumlah bayaran masuk antara orang dewasa dengan kanak-kanak dalam empat hari itu.

- A RM170
- B RM290
- C RM550
- D RM600

| Lihat Sebelah

29 Table 1 shows the distribution of the scores of 40 students in a science quiz.

Jadual 1 menunjukkan taburan markah bagi 40 pelajar dalam kuiz sains.

Score Skor	1	2	3	4
Frequency Frekuensi	6	17	13	4

Table 1
Jadual 1

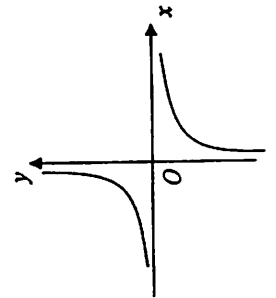
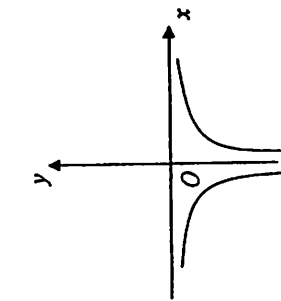
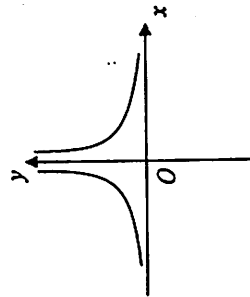
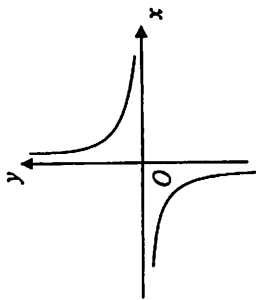
If the above data is represented using a pie chart, find the angle of sector of the modal score.

Jika data di atas diwakilkan dengan sebuah carta pai, cari sudut sektor bagi skor mod.

- A 90°
- B 117°
- C 153°
- D 270°

30 Which of the following graphs represents $y = \frac{-2}{x}$?

Antara graf berikut yang manakah mewakili $y = \frac{-2}{x}$?



31 Diagram 13 is a Venn diagram showing all the elements of the universal set ξ , set P , set Q and set R .

Rajah 13 ialah gambar rajah Venn yang menunjukkan semua unsur dalam set semesta ξ , set P , set Q dan set R .

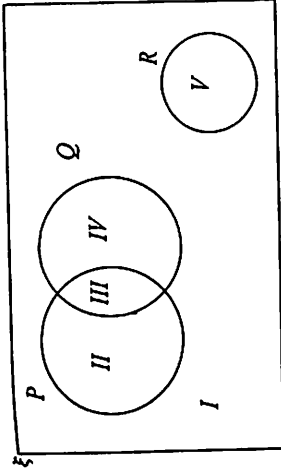


Diagram 13
Rajah 13

Set $(P \cap Q') \cup R$ is represented by the regions

Set $(P \cap Q') \cup R$ diwakili oleh kawasan

- A I and V
- B II and V
- C III and V
- D IV and V

32 It is given that the universal set $\xi = \{x: 15 \leq x \leq 30, x \text{ is an integer}\}$, set $M = \{x: x \text{ is a perfect square}\}$ and $N = \{x: x \text{ is the number where the sum of the two digits is less than 8}\}$.

Find the $n(M \cup N')$.

Diberi bahawa set semesta set $\xi = \{x: 15 \leq x \leq 30, x \text{ adalah integer}\}$,

Set $M = \{x: x \text{ adalah nombor kuasa dua sempurna}\}$ dan

Set $N = \{x: x \text{ adalah nombor yang hasil tambah digitnya kurang dari 8}\}$.

Cari $n(M \cup N')$.

- A 7
- B 8
- C 9
- D 10

33 The straight line $3y - 2x = k$ passes through the point $(-3, 2)$. The value of the y-intercept is

Garis lurus $3y - 2x = k$ melalui titik $(-3, 2)$. Nilai pintasan-y ialah

- A 3
- B 4
- C 12
- D 13

34 Given that point $A(-2, 3)$ and point $B(4, t)$ are on a straight line. The gradient of AB is $\frac{1}{2}$.

Find the value of t .

Diberi bahawa titik $A(-2, 3)$ dan titik $B(4, t)$ terletak pada satu garis lurus. Kecerunan garis lurus AB ialah $\frac{1}{2}$.

Cari nilai t .

- A 2
- B 3
- C 6
- D 8

35 There are 20 red balls, a number of yellow and green balls in a box. If a ball is picked at random from the box, the probability of picking a yellow ball and a green ball is $\frac{1}{7}$ and $\frac{2}{7}$ respectively.

Calculate the number of balls in the box.

Terdapat 20 biji bola merah, beberapa biji bola kuning dan hijau di dalam sebuah kotak. Jika sebiji bola diambil secara rawak dari kotak itu, kebarangkalian bahawa sebiji bola kuning dan sebiji bola hijau diambil ialah masing-masing $\frac{1}{7}$ dan $\frac{2}{7}$.

Kira bilangan bola dalam kotak itu.

- A 25
- B 30
- C 35
- D 40

- 36 Table 2 shows the number of teachers teaching Physics, Mathematics and English subject in a Sekolah Menengah Kebangsaan Seri Mawar.

Jadual 2 menunjukkan bilangan guru yang mengajar mata pelajaran Fizik, Matematik dan Bahasa Inggeris di Sekolah Menengah Kebangsaan Seri Mawar.

Subject Mata pelajaran	Physics Fizik	Mathematics Matematik	English Bahasa Inggeris
Number of teachers Bilangan guru	2	12	k

Table 2
Jadual 2

The number of English teachers is three times the number of Physics teachers. A teacher is chosen at random from the group.

Find the probability that the teacher chosen does not teach Mathematics.

Bilangan guru Bahasa Inggeris ialah tiga ganda bilangan guru Fizik. Seorang guru dipilih secara rawak daripada kumpulan itu.

Cari kebarangkalian bahawa guru yang dipilih itu tidak mengajar Matematik.

- A $\frac{2}{5}$
 B $\frac{3}{5}$
 C $\frac{3}{10}$
 D $\frac{1}{10}$

- 37 It is given that y varies directly as the cube root of x and inversely as the square of z .
Find the relation between y , x and z .

Diberi bahawa y berubah secara langsung dengan punca kuasa tiga x dan secara songsang dengan kuasa dua z .

Cari hubungan antara y , x dan z .

- A $y \propto x^3(\sqrt{z})$
 B $y \propto z^2(\sqrt[3]{x})$
 C $y \propto \frac{z^2}{\sqrt[3]{x}}$
 D $y \propto \frac{\sqrt[3]{x}}{z^2}$

- 38 The relation between the variables p , q and r is $p \propto \frac{q}{\sqrt{r}}$.

It is given that $p = 2$ when $q = 8$ and $r = 4$.

Calculate the value of r when $p = 3$ and $q = 12$.

Hubungan antara pembolehubah-pembolehubah p , q dan r ialah $p \propto \frac{q}{\sqrt{r}}$.

Diberi bahawa $p = 2$ apabila $q = 8$ dan $r = 4$.

Hitung nilai r apabila $p = 3$ dan $q = 12$.

- A 2
 B 4
 C 6
 D 8

$$39 \begin{pmatrix} 3 \\ 2 \end{pmatrix} (1 \ 3) - \begin{pmatrix} 2 & 1 \\ -2 & 3 \end{pmatrix} =$$

A $\begin{pmatrix} 1 & 2 \\ 4 & 3 \end{pmatrix}$

B $\begin{pmatrix} 1 & 5 \\ 4 & 0 \end{pmatrix}$

C $\begin{pmatrix} 1 & 5 \\ 4 & 3 \end{pmatrix}$

D $\begin{pmatrix} 1 & 8 \\ 4 & 3 \end{pmatrix}$

$$40 \text{ Given } \begin{pmatrix} 5 & 2 \\ -1 & 3 \end{pmatrix} - 2 \begin{pmatrix} m & 3 \\ 2 & -2 \end{pmatrix} = \begin{pmatrix} 3 & n \\ -5 & 7 \end{pmatrix}, \text{ find the value of } m \text{ and of } n.$$

$$\text{Diberi } \begin{pmatrix} 5 & 2 \\ -1 & 3 \end{pmatrix} - 2 \begin{pmatrix} m & 3 \\ 2 & -2 \end{pmatrix} = \begin{pmatrix} 3 & n \\ -5 & 7 \end{pmatrix}, \text{ cari nilai } m \text{ dan nilai } n.$$

A $m=1, n=-4$

B $m=1, n=-1$

C $m=2, n=-2$

D $m=3, n=-2$