

SULIT
1449/1
Mathematics
Kertas 1
2011
 $1 \frac{1}{4}$ jam



MAJLIS PENGETUA SEKOLAH MENENGAH MALAYSIA
CAWANGAN NEGERI SEMBILAN

PEPERIKSAAN PERCUBAAN BERSAMA
SIJIL PELAJARAN MALAYSIA 2011

MATHEMATICS

Kertas 1

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 belakang kertas soalan ini.*

Kertas soalan ini mengandungi 32 halaman bercetak.

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. $a^m \times a^n = a^{m+n}$

2. $a^m \div a^n = a^{m-n}$

3. $(a^m)^n = a^{mn}$

4. $A^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$

5. Distance / Jarak
 $= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

6. Midpoint / Titik tengah
 $(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

7. Average speed = $\frac{\text{distance travelled}}{\text{time taken}}$
Purata laju = $\frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}$

8. Mean = $\frac{\text{sum of data}}{\text{number of data}}$

Min = $\frac{\text{hasil tambah nilai data}}{\text{bilangan data}}$

9. Mean = $\frac{\text{sum of (classmark} \times \text{frequency)}}{\text{sum of frequencies}}$

Min = $\frac{\text{hasil tambah (nilai titik tengah kelas} \times \text{kekerapan)}}{\text{hasil tambah kekerapan}}$

10. Pythagoras Theorem
Teorem Pithagoras
 $c^2 = a^2 + b^2$

11. $P(A) = \frac{n(A)}{n(S)}$

12. $P(A') = 1 - P(A)$

13. $m = \frac{y_2 - y_1}{x_2 - x_1}$

14. $m = -\frac{y - \text{intercept}}{x - \text{intercept}}$

$m = -\frac{\text{pintasan} - y}{\text{pintasan} - x}$

SHAPE AND SPACE
BENTUK DAN RUANG

1. Area of trapezium = $\frac{1}{2} \times$ sum of parallel sides \times height
Luas trapezium = $\frac{1}{2} \times$ hasil tambah dua sisi selari \times 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 = $2\pi r h$
Luas permukaan melengkung silinder = $2\pi r h$
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 = $\pi r^2 h$
8. Volume of cone = $\frac{1}{3} \pi r^2 h$
Isipadu kon = $\frac{1}{3} \pi r^2 h$
9. Volume of sphere = $\frac{4}{3} \pi r^3$
Isipadu sfera = $\frac{4}{3} \pi r^3$
10. Volume of right pyramid = $\frac{1}{3} \times$ base area \times height
Isipadu piramid tegak = $\frac{1}{3} \times$ luas tapak \times tinggi
11. Sum of interior angles of a polygon
Hasil tambah sudut pedalaman poligon
 $= (n - 2) \times 180^\circ$

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$$12. \frac{\text{arc length}}{\text{circumference of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$

$$\frac{\text{panjang lengkok}}{\text{lilitan bula tan}} = \frac{\text{sudut pusat}}{360^\circ}$$

$$13. \frac{\text{area of sector}}{\text{area of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$

$$\frac{\text{luas sektor}}{\text{luas bula tan}} = \frac{\text{sudut pusat}}{360^\circ}$$

$$14. \text{Scale factor, } k = \frac{PA'}{PA}$$

$$\text{Faktor skala, } k = \frac{PA'}{PA}$$

$$15. \text{Area of image} = k^2 \times \text{area of object}$$

$$\text{Luas imej} = k^2 \times \text{luas objek}$$

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Answer **all** questions
Jawab semua soalan

1 Round off 0.04703 correct to three significant figures.

Bundarkan 0.04703 betul kepada tiga angka bererti.

- A 0.05
- B 0.050
- C 0.047
- D 0.0470

2 Express 5.231×10^2 as a single number.

Ungkapkan 5.231×10^2 sebagai satu nombor tunggal.

- A 0.05231
- B 0.5231
- C 52.31
- D 523.1

3 $2.74 \times 10^{-5} - 3.21 \times 10^{-6} =$

- A 2.419×10^{-5}
- B 2.419×10^{-6}
- C 3.036×10^{-5}
- D 3.036×10^{-6}

4 $11011_2 - 111_2 =$

- A 10000_2
- B 10100_2
- C 11100_2
- D 100010_2

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8 In Diagram 3, JKL is a tangent to the circle with centre O , at K .

Dalam Rajah 3, JKL ialah tangen kepada bulatan berpusat O , di K .

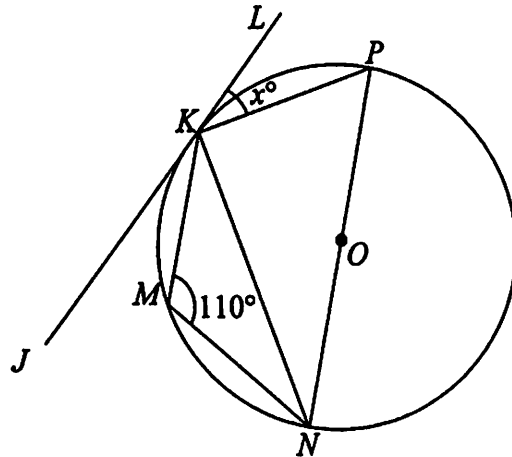


Diagram 3

Rajah 3

Find the value of x .

Cari nilai x .

- A** 20
- B** 35
- C** 55
- D** 70

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Answer all questions
Jawab semua soalan

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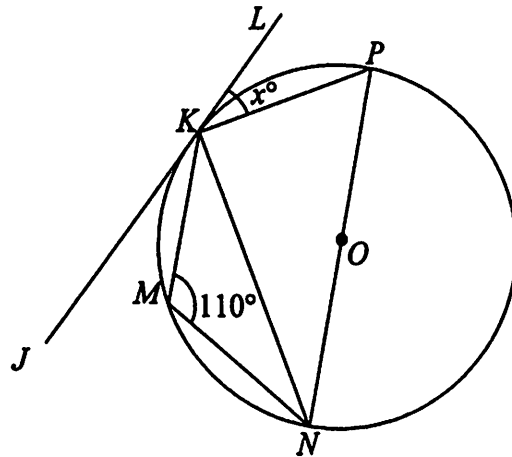


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- D** 70

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7 In Diagram 2, $JKLMN$ is a regular pentagon. JKR and JLS are straight lines.

Dalam Rajah 2, $JKLMN$ ialah sebuah pentagon sekata. JKR dan JLS adalah garis lurus.

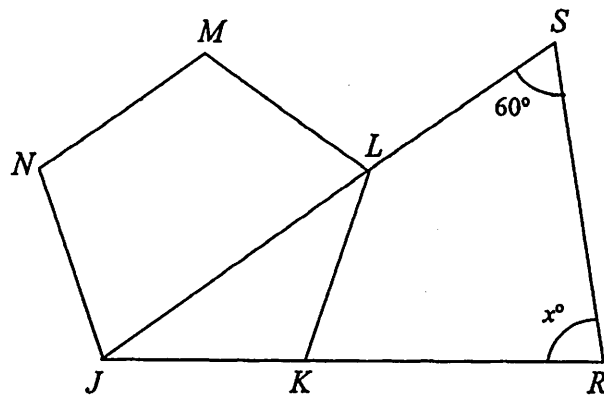


Diagram 2
Rajah 2

Find the value of x .

Cari nilai x .

- A 48
- B 72
- C 84
- D 96

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8 In Diagram 3, JKL is a tangent to the circle with centre O , at K .

Dalam Rajah 3, JKL ialah tangen kepada bulatan berpusat O , di K .

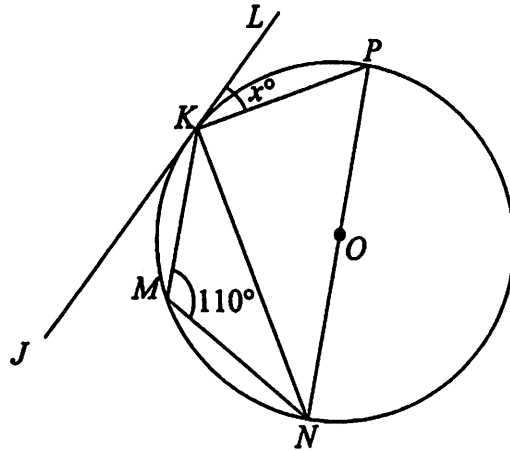


Diagram 3

Rajah 3

Find the value of x .

Cari nilai x .

- A** 20
- B** 35
- C** 55
- D** 70

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- 9 In Diagram 4, triangle Q is the image of triangle P under a rotation of 90° clockwise.

Dalam Rajah 4, segi tiga Q adalah imej bagi segi tiga P di bawah suatu putaran 90° ikut arah jam.

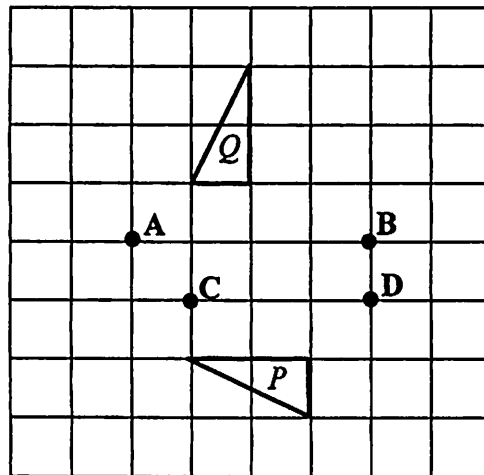


Diagram 4

Rajah 4

Which of the points A, B, C or D is the centre of the rotation ?

Antara titik A, B, C atau D yang manakah pusat putaran itu?

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10 Diagram 5 shows five quadrilaterals drawn on square grids.

Rajah 5 menunjukkan lima sisi empat dilukis pada grid segi empat sama.

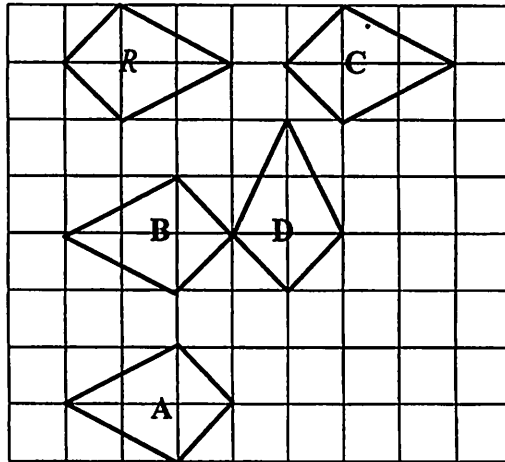


Diagram 5
Rajah 5

Which of the quadrilaterals A, B, C or D, is an image of R under a reflection in a certain line ?

Antara sisi empat A, B, C atau D, yang manakah imej bagi R di bawah suatu pantulan pada garis tertentu?

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- 11 In Diagram 6, JKL is a straight line.
 Dalam Rajah 6, JKL ialah garis lurus.

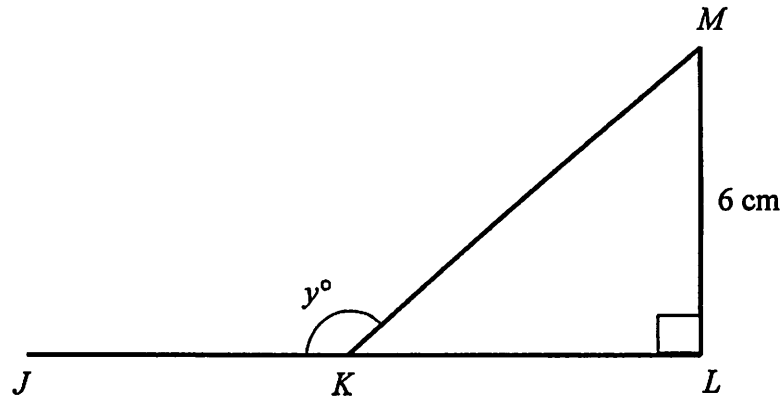


Diagram 6

Rajah 6

Given that $\cos \angle LMK = \frac{3}{5}$, find the value of $\cos y^\circ$.

Diberi bahawa $\cos \angle LMK = \frac{3}{5}$, cari nilai $\cos y^\circ$.

- A $\frac{3}{5}$
 B $\frac{4}{5}$
 C $-\frac{3}{5}$
 D $-\frac{4}{5}$

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- 12 Diagram 7 shows the graph of $y = \cos x^\circ$.
Rajah 7 menunjukkan graf $y = \cos x^\circ$.

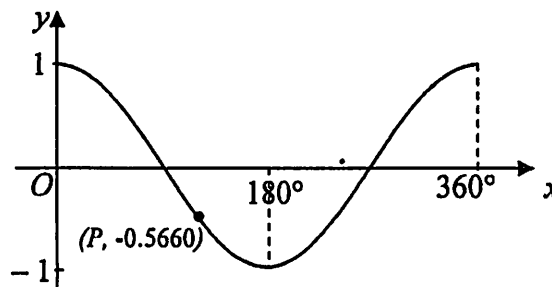


Diagram 7
Rajah 7

Find the value of P .
Cari nilai P .

- A 34.47°
 - B 55.53°
 - C 124.47°
 - D 145.53°
- 13 Diagram 8 shows a unit circle. O is the origin of a Cartesian plane.
Rajah 8 menunjukkan sebuah bulatan unit. O ialah asalan pada suatu satah Cartesian.

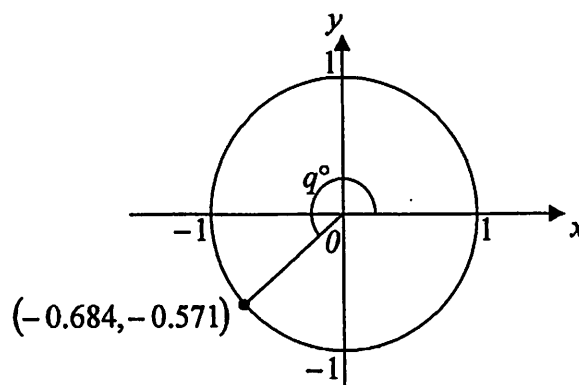


Diagram 8
Rajah 8

Find the value of q .
Cari nilai q .

- A 230.15
- B 223.15
- C 219.85
- D 214.35

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14 Diagram 9 shows a right angled triangular prism with a rectangular base $JKLM$.

Rajah 9 menunjukkan sebuah prisma segitiga tegak dengan tapak segi empat tepat $JKLM$.

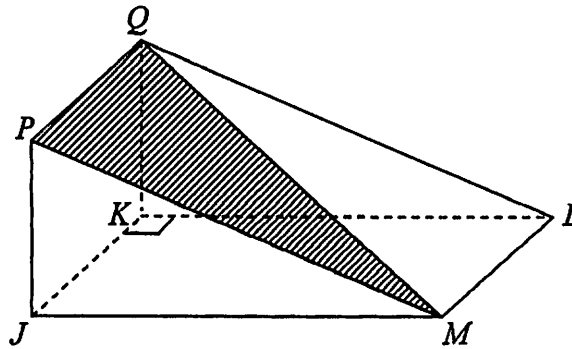


Diagram 9

Rajah 9

Name the angle between the plane PQM and the plane $JKQP$.

Namakan sudut di antara satah PQM dan satah $JKQP$.

- A $\angle MQK$
- B $\angle MPJ$
- C $\angle PMJ$
- D $\angle QML$

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- 15 In Diagram 10, P and Q are two points on the horizontal plane and R is the top of a vertical flagpole PR .

Dalam Rajah 10, P dan Q ialah dua titik pada satah mengufuk dan R ialah puncak sebatang tiang bendera tegak PR .

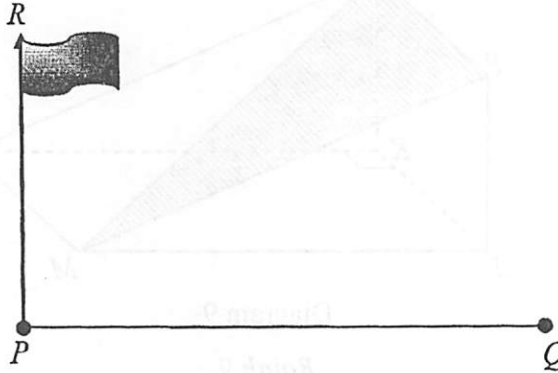


Diagram 10

Rajah 10

The angle of elevation of R from Q is 42° . The distance between P and Q is 16 m. Calculate the height, in m , of the flagpole PR .

Sudut dongakan R dari Q ialah 42° . Jarak di antara P dan Q ialah 16 m. Hitungkan tinggi, dalam m , tiang bendera PR itu.

- A 10.71
- B 11.89
- C 14.41
- D 17.77

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16 Diagram 11 shows two vertical tower KL and JM on a horizontal plane.

Rajah 11 menunjukkan dua buah menara KL dan JM di atas satah mengufuk.

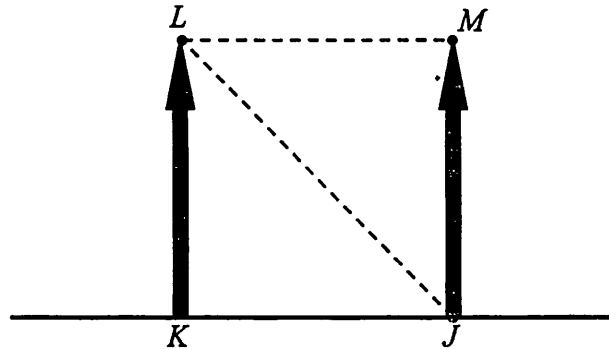


Diagram 11

Rajah 11

The angle of depression of point J from point L is

Sudut tunduk titik J dari titik L ialah

- A $\angle MLJ$
- B $\angle LJK$
- C $\angle JKL$
- D $\angle JLK$

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- 17 Diagram 12 shows two points of P and Q on a horizontal plane.
Rajah 12 menunjukkan dua titik P dan Q pada satah mengufuk.

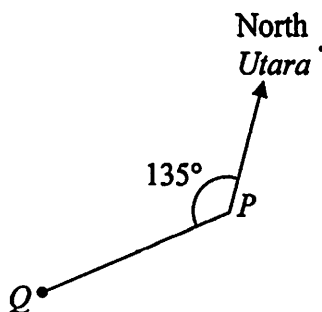


Diagram 12
Rajah 12

Find the bearing of P from Q .

Cari bearing P dari Q .

- A 315°
- B 225°
- C 135°
- D 045°

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18 In Diagram 13, N is the North Pole and S is the South Pole. $PM=MS$.

Dalam Rajah 13, U ialah Kutub Utara dan S ialah Kutub Selatan. $PM=MS$.

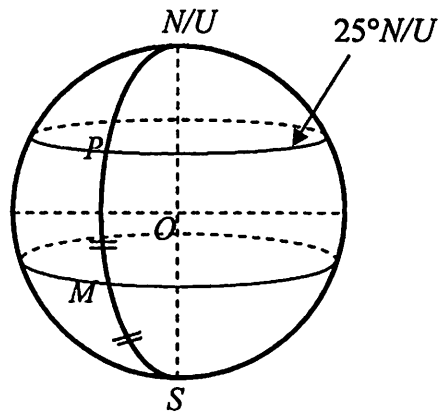


Diagram 13

Rajah 13

Find the latitude of M .

Cari latitud M .

- A $25^{\circ}S$
- B $32.5^{\circ}S$
- C $45^{\circ}S$
- D $57.5^{\circ}S$

19 $3p(p+1)-(p-2)^2 =$

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19 $3p(p+1) - (p-2)^2 =$

A $2p^2 - p + 4$

B $2p^2 - p - 4$

C $2p^2 + 3p + 4$

D $2p^2 + 7p - 4$

20 Express $\frac{m}{3} - \frac{2(m^2-2)}{12m}$ as a single fraction in its simplest form.

Ungkapkan $\frac{m}{3} - \frac{2(m^2-2)}{12m}$ sebagai satu pecahan tunggal dalam bentuk termudah.

A $\frac{m^2+2}{6m}$

B $\frac{m^2-2}{6m}$

C $\frac{m^2+2}{12m}$

D $\frac{m^2-2}{12m}$

21 Given that $p = \frac{1}{p} + \frac{p}{q}$, express q in terms of p .

Diberi bahawa $p = \frac{1}{p} + \frac{p}{q}$, ungkapkan q dalam sebutan p .

A $\frac{p^2-1}{p^2}$

B $\frac{p^2}{p^2-1}$

C $\frac{1}{p^2}$

D $\frac{1}{p^2-1}$

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22 Given that $m + \frac{2}{3}(12m + 18) = -3$, calculate the value of m .

Diberi bahawa $m + \frac{2}{3}(12m + 18) = -3$, hitungkan nilai m .

A $-\frac{27}{25}$

B $-\frac{9}{5}$

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

D $-\frac{7}{3}$

23 Given that $3^{2y} = \frac{27}{3^y}$, find the value of y .

Diberi bahawa $3^{2y} = \frac{27}{3^y}$, cari nilai y .

A 3

B 1

C $\frac{1}{2}$

D $\frac{1}{3}$

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24 Simplify :

Ringkaskan:

$$\left(m^{\frac{1}{3}}n^2\right)^3 \div (m^2n^{-4}) =$$

- A $m^{-1}n^2$
- B $m^{-1}n^{10}$
- C mn^{10}
- D m^2n

25 List all the integers x which satisfy both the simultaneous linear inequalities

$$\frac{3}{5}x - 2 \geq 1 \text{ and } 15 - x > 2.$$

Senaraikan semua integer x yang memuaskan kedua-dua ketaksamaan linear

serentak $\frac{3}{5}x - 2 \geq 1$ dan $15 - x > 2$.

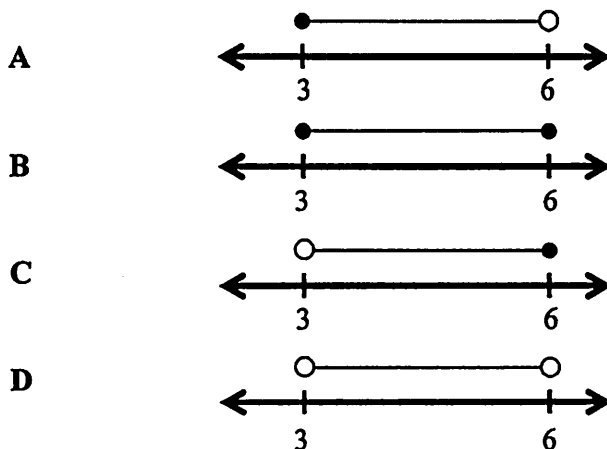
- A 5, 6, 7, 8, 9, 10
- B 6, 7, 8, 9, 10
- C 5, 6, 7, 8, 9, 10, 11, 12
- D 6, 7, 8, 9, 10, 11, 12

26 Which number lines represents the solution of the linear inequalities

$$4 < 3x - 5 \leq 13?$$

Garis nombor manakah yang mewakili penyelesaian bagi ketaksamaan linear

serentak $4 < 3x - 5 \leq 13$?



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- 27 A bar chart in Diagram 14 shows a number of students attended the leadership course representing by four schools *P*, *Q*, *R* and *S*.

Carta palang dalam Rajah 14 menunjukkan bilangan murid yang menghadiri suatu kursus kepimpinan yang diwakili oleh empat buah sekolah P, Q, R dan S.

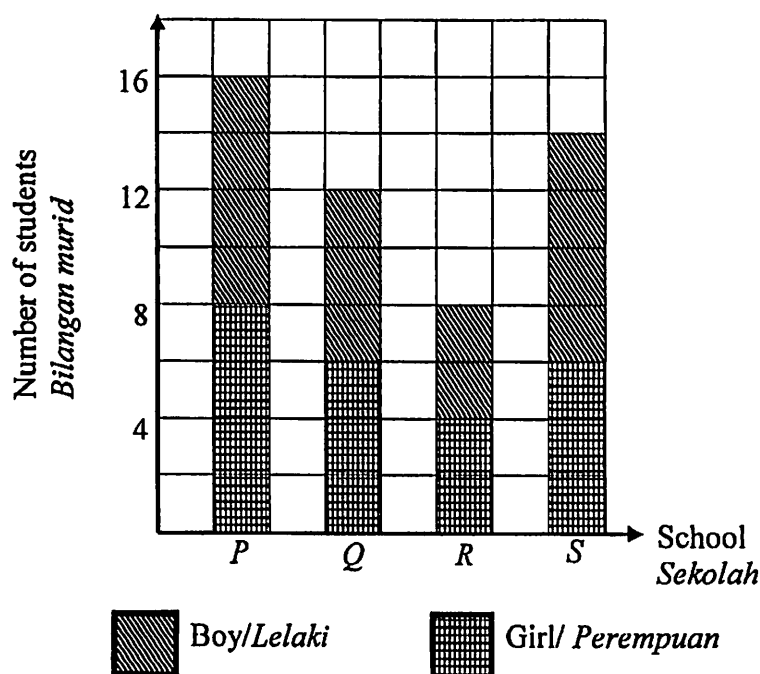


Diagram 14

Rajah 14

Calculate the different between number of boys and girls who attended the leadership course.

Hitungkan beza antara bilangan murid lelaki dengan murid perempuan yang menghadiri kursus kepimpinan itu.

- A 4
- B 3
- C 2
- D 1

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28 The pie chart in Diagram 15 shows the favourite games of a group of students.

Carta pai dalam Rajah 15 menunjukkan permainan yang diminati oleh sekumpulan murid.

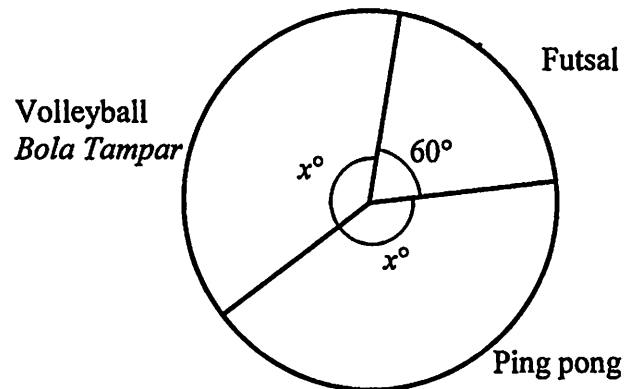


Diagram 15
Rajah 15

If the total number of students in the group is 108. How many students who decided the volleyball as their favourite game?

Jika jumlah bilangan murid dalam kumpulan itu ialah 108 orang. Berapakah bilangan murid yang memilih bola tampar sebagai permainan yang diminati?

- A 18
- B 45
- C 90
- D 150

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- 29** Table 1 is a frequency table showing the marks obtained by a group of student in a Mathematics test.

Jadual 1 ialah jadual kekerapan yang menunjukkan markah diperolehi oleh sekumpulan murid dalam satu ujian Matematik.

Marks/ Markah	Frequency /Kekerapan
80-100	6
70-79	9
60-69	10
50-59	6
<50	5

Table 1
Jadual 1

Calculate the number of students that gets mark below than the modal class.

Hitung bilangan murid mendapat markah yang lebih rendah daripada kelas mod.

- A** 6
- B** 10
- C** 15
- D** 21

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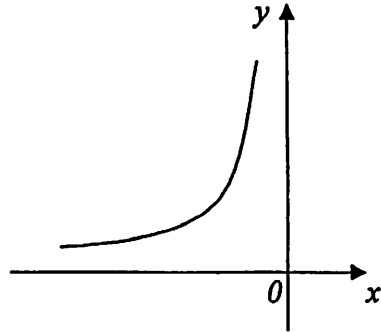
24

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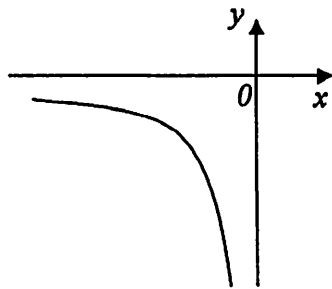
30 Which graph represents part of the graph $y = -\frac{5}{x}$?

Graf manakah yang mewakili sebahagian daripada graf $y = -\frac{5}{x}$?

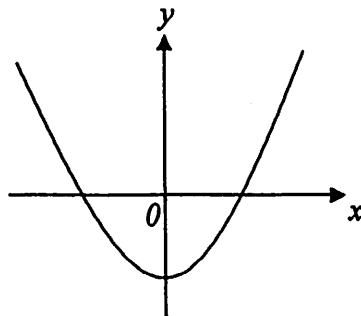
A



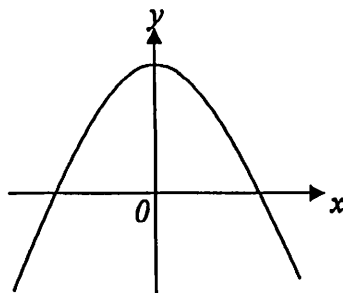
B



C



D



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- 31** Given the universal set $\xi = \{ x : 20 < x \leq 34, x \text{ is an integer} \}$, and set $P = \{ x : x \text{ is a number such that the sum of its two digits is an odd number} \}$. Find set P' .

Diberi set semesta $\xi = \{ x : 20 < x \leq 34, x \text{ ialah integer} \}$ dan set $P = \{ x : x \text{ ialah nombor dengan keadaan hasil tambah dua digitnya ialah nombor ganjil} \}$. Cari set P' .

- A { 22, 24, 26, 28, 31, 33 }
- B { 22, 24, 26, 30, 32, 34 }
- C { 23, 25, 27, 29, 31, 32, 34 }
- D { 23, 25, 27, 29, 30, 31, 32, 34 }

- 32** Diagram 16 is a Venn diagram showing the universal set $\xi = \{ \text{Form Five students} \}$, set $M = \{ \text{Students who passed Mathematics test} \}$ and set $S = \{ \text{Students who passed Science test} \}$.

Rajah 16 ialah gambar rajah Venn yang menunjukkan set semesta, $\xi = \{ \text{Murid Tingkatan Lima} \}$, set $M = \{ \text{Murid yang lulus ujian Matematik} \}$ dan set $S = \{ \text{Murid yang lulus ujian Sains} \}$.

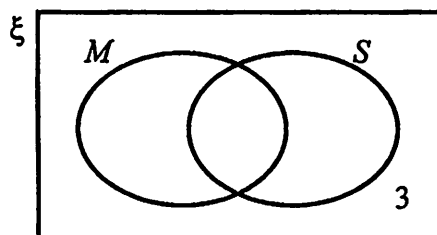


Diagram 16
Rajah 16

Given $n(\xi) = 100$, $n(M) = 45$ and $n(S) = 72$. Find the number of students who passed both of Mathematics and Science test.

Diberi $n(\xi) = 100$, $n(M) = 45$ dan $n(S) = 72$. Cari bilangan murid yang lulus kedua-dua ujian Matematik dan Sains.

- A 14
- B 17
- C 20
- D 27

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33 In Diagram 17, gradient of straight line $PQ = \frac{4}{5}$.

Dalam Rajah 17, kecerunan garis lurus $PQ = \frac{4}{5}$.

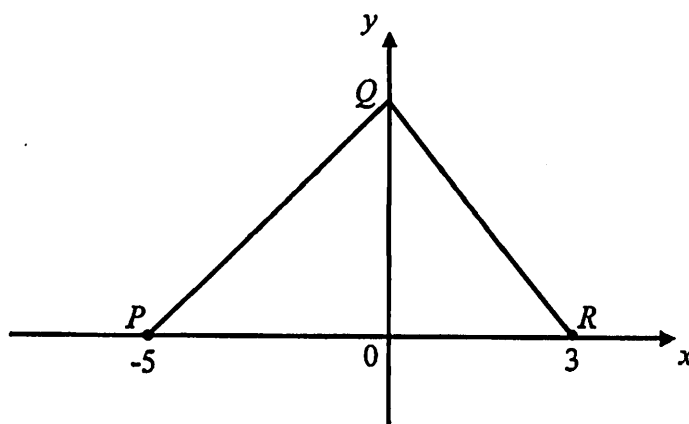


Diagram 17

Rajah 17

Find the gradient of straight line QR .

Cari kecerunan bagi garis lurus QR .

A $\frac{3}{4}$

B $-\frac{3}{4}$

C $\frac{4}{3}$

D $-\frac{4}{3}$

SULIT

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- 34 Diagram 18 shows the straight line PQ is parallel to the straight line RS .
Rajah 18 menunjukkan garis lurus PQ adalah selari dengan garis lurus RS .

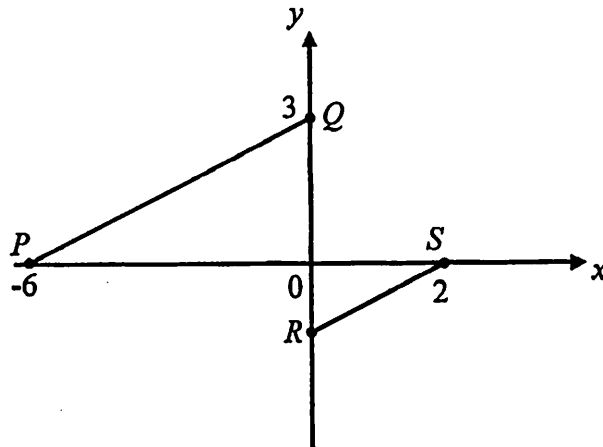


Diagram 18

*Rajah 18*Find the y -intercept of RS .*Cari pintasan- y bagi RS .*

- A -2
- B -1
- C 1
- D 2

SULIT**28****1449/1****35** Table 2 shows the number of marbles in a box.*Jadual 2 menunjukkan bilangan guli dalam sebuah kotak.*

Colour <i>Warna</i>	Number of marbles <i>Bilangan guli</i>
Yellow <i>Kuning</i>	24
Red <i>Merah</i>	31
Blue <i>Biru</i>	x

Table 2
Jadual 2

A marble is picked at random from the box. The probability that a yellow marble is chosen is $\frac{3}{10}$. Find the value of x .

Sebiji guli dipilih secara rawak daripada kotak itu. Kebarangkalian memilih guli kuning ialah $\frac{3}{10}$. Cari nilai x itu.

- A** 24
- B** 25
- C** 26
- D** 28

SULIT**29****1449/1**

- 36 In a class, there were eight students who wear spectacles.
If a student was chosen at random from the class, the probability that the student was wearing spectacles was $\frac{1}{5}$.
Six new students joined the class.
If a student is chosen from the class, state the probability that the student who wears spectacles.

*Dalam sebuah kelas, terdapat lapan orang murid memakai cermin mata.
Jika murid dipilih secara rawak daripada kelas itu, kebarangkalian murid memakai cermin mata ialah $\frac{1}{5}$.*

*Enam orang murid baru menyertai kelas itu.
Jika seorang murid dipilih secara rawak daripada kelas itu, nyatakan kebarangkalian murid yang memakai cermin mata.*

- A $\frac{3}{23}$
B $\frac{3}{20}$
C $\frac{7}{23}$
D $\frac{7}{20}$

SULIT

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- 37 It is given that y varies directly as the cube root of x .
Find the relationship between y and x .

*Diberi bahawa y berubah secara langsung dengan punca kuasa tiga x .
Cari hubungan antara y dan x .*

A $y \propto x^{\frac{1}{3}}$

B $y \propto x^3$

C $y \propto \frac{1}{x^{\frac{1}{3}}}$

D $y \propto \frac{1}{x^3}$

- 38 Table 3 shows the values of m, n and p . Given that $m \propto \frac{\sqrt{n}}{p^2}$.

Jadual 3 menunjukkan nilai-nilai m, n dan p . Diberi bahawa $m \propto \frac{\sqrt{n}}{p^2}$.

m	n	p
18	9	2
4	q	3

Table 3

Jadual 3

Find the value of q .

Cari nilai q .

A $\frac{1}{4}$

B $\frac{2}{3}$

C $\frac{3}{2}$

D $\frac{9}{4}$

SULIT**31****1449/1**

39 $\begin{pmatrix} 6 & 1 \\ 4 & 2 \end{pmatrix} - 3\begin{pmatrix} -2 & 4 \\ 2 & 0 \end{pmatrix} + \begin{pmatrix} 1 & 5 \\ -4 & 3 \end{pmatrix} =$

A $\begin{pmatrix} 13 & -6 \\ 6 & 5 \end{pmatrix}$

B $\begin{pmatrix} 13 & -6 \\ -6 & 5 \end{pmatrix}$

C $\begin{pmatrix} 13 & 6 \\ 6 & 5 \end{pmatrix}$

D $\begin{pmatrix} 13 & 6 \\ -6 & 5 \end{pmatrix}$

40 Given that $\begin{pmatrix} 1 & 3 \\ 0 & h \end{pmatrix} \begin{pmatrix} h \\ 3 \end{pmatrix} = \begin{pmatrix} 6 \\ -9 \end{pmatrix}$, calculate the value of h .

Diberi bahawa $\begin{pmatrix} 1 & 3 \\ 0 & h \end{pmatrix} \begin{pmatrix} h \\ 3 \end{pmatrix} = \begin{pmatrix} 6 \\ -9 \end{pmatrix}$, hitung nilai h .

A 6

B 3

C 0

D -3

END OF QUESTION PAPER***KERTAS SOALAN TAMAT***

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 answer sheet.
Jawab dengan menghitamkan ruangan yang betul pada kertas jawapan.
4. Blacken only one space for each question.
Bagi setiap soalan hitamkan satu ruangan sahaja.
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 2 to 4.
Satu senarai rumus disediakan di halaman 2 hingga 4.
8. A booklet of four-figure mathematical tables can be used.
Buku sifir matematik empat angka boleh digunakan.
9. You may use a non-programmable scientific calculator.
Anda dibenarkan menggunakan kalkulator saintifik yang tidak boleh diprogram.