

**JABATAN PELAJARAN NEGERI TERENGGANU****PEPERIKSAAN OTI 1
SIJIL PELAJARAN MALAYSIA 2010
MATEMATIK****1449/1**

Kertas 1

Mei

2010

 $1\frac{1}{4}$ jam

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.*

Disediakan Oleh:
AKRAM NEGERI TERENGGANU

Dibiayai Oleh:
KERAJAAN NEGERI TERENGGANU

TERENGGANU ANJUNG ILMU

Dicetak Oleh:
Percetakan Yayasan Islam Terengganu Sdn. Bhd.
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Kertas soalan ini mengandungi 29 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 = $\frac{\text{distance travelled}}{\text{time taken}}$

$$\text{Purata laju} = \frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}$$

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

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

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

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

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

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

**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 = $\pi d = 2\pi j$
- 3 Area of circle = πr^2
Luas bulatan = πj^2
- 4 Curved surface area of cylinder = $2\pi rh$
Luas permukaan melengkung silinder = $2\pi jt$
- 5 Surface area of sphere = $4\pi r^2$
Luas permukaan sfera = $4\pi j^2$
- 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 = $\pi j^2 t$
- 8 Volume of cone = $\frac{1}{3} \pi r^2 h$
Isipadu kon = $\frac{1}{3} \pi j^2 t$
- 9 Volume of sphere = $\frac{4}{3} \pi r^3$
Isipadu sfera = $\frac{4}{3} \pi j^3$
- 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 a polygon
Hasil tambah sudut pedalaman poligon
 $= (n - 2) \times 180^\circ$

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

$$\frac{\text{panjang lengkung}}{\text{lilitan bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$$

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

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

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

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

$$15 \quad \text{Area of image} = k^2 \times \text{area of object}$$
$$\text{Luas imej} = k^2 \times \text{luas objek}$$

- 1 Find the value of $(3 - 0.368) \div 40$, and round off the answer correct to two significant figures.

Cari nilai $(3 - 0.368) \div 40$, dan bundarkan jawapan itu betul kepada dua angka bererti.

- A 0.06
- B 0.07
- C 0.065
- D 0.066

- 2 Express 0.00000635 in standard form.

Ungkapkan 0.00000635 dalam bentuk piawai.

- A 6.35×10^{-6}
- B 6.35×10^{-5}
- C 6.35×10^5
- D 6.35×10^6

- 3 $8.5 \times 10^{12} - 3.4 \times 10^{11} =$

- A 5.10×10^{12}
- B 8.16×10^{12}
- C 5.10×10^{11}
- D 8.16×10^{11}

- 4 A rectangular piece of land has an area of $1.5 \times 10^8 \text{ m}^2$. Its length is $6 \times 10^6 \text{ cm}$. Find the width, in cm.

Luas tanah segiempat tepat ialah $1.5 \times 10^8 \text{ m}^2$. Panjang tanah tersebut ialah $6 \times 10^6 \text{ cm}$. Cari lebar tanah, dalam cm.

- A 2.5×10
- B 2.5×10^3
- C 2.5×10^5
- D 2.5×10^6

- 5 State the value of digit 3 in the number 1367_8 , in base ten.
Nyatakan nilai bagi digit 3 bagi nombor 1367_8 , dalam asas sepuluh.

- A 24
 B 64
 C 192
 D 300

6 $11101_2 - 1001_2 =$

- A 10000_2
 B 10010_2
 C 10100_2
 D 10110_2

- 7 In Diagram 1, $EFGHJKLM$ and $PQRSJH$ are regular polygons.
Dalam Rajah 1, $EFGHJKLM$ dan $PQRSJH$ ialah poligon sekata.

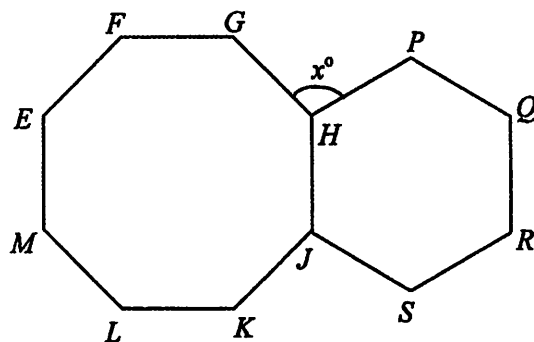


Diagram 1 / Rajah 1

Find the value of x .
Cari nilai x

- A 105°
 B 108°
 C 120°
 D 135°

- 8 In Diagram 2, PQR is an equilateral triangle, $PRTU$ is a straight line.
Dalam Rajah 2, PQR ialah segitiga sama sisi, $PRTU$ ialah garis lurus.

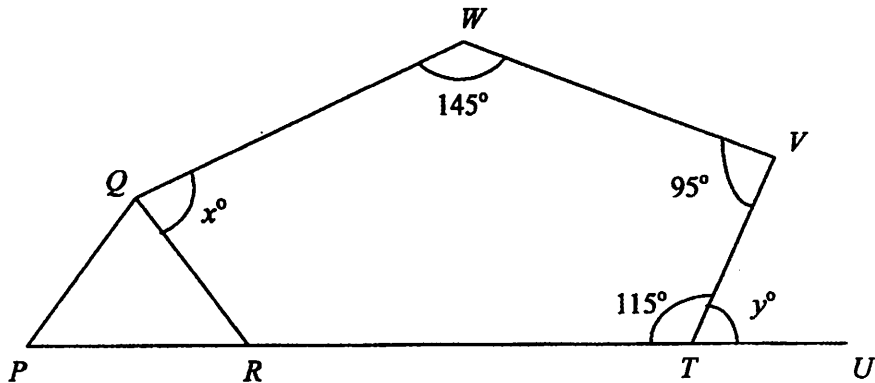


Diagram 2 / Rajah 2

Calculate the value of $x + y$.
Hitungkan nilai $x + y$.

- A 105°
- B 115°
- C 120°
- D 130°

- 9 In Diagram 3, PQ is a tangent to the circle $RQTS$ at Q . PRS is a straight line.
 Dalam Rajah 3, PQ ialah tangen kepada bulatan $RQTS$ di Q . PRS ialah garis lurus.

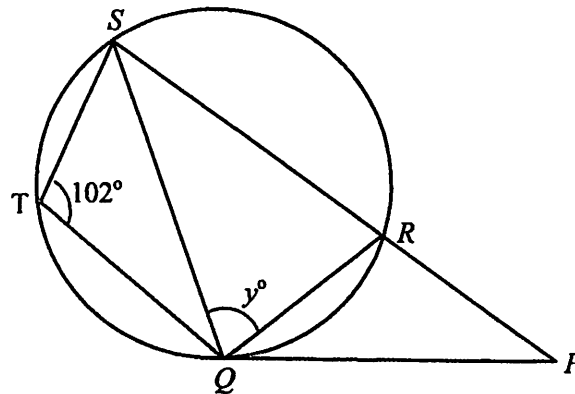


Diagram 3 / Rajah 3

Given $RP = RQ$, find the value of y .
 Diberi $RP = RQ$, cari nilai y .

- A 39
- B 51
- C 63
- D 78

- 10 Diagram 4 shows five triangles P , A , B , C , and D drawn on a Cartesian plane.
Rajah 4 menunjukkan lima segitiga P , A , B , C dan D dilukis pada satah Cartesian.

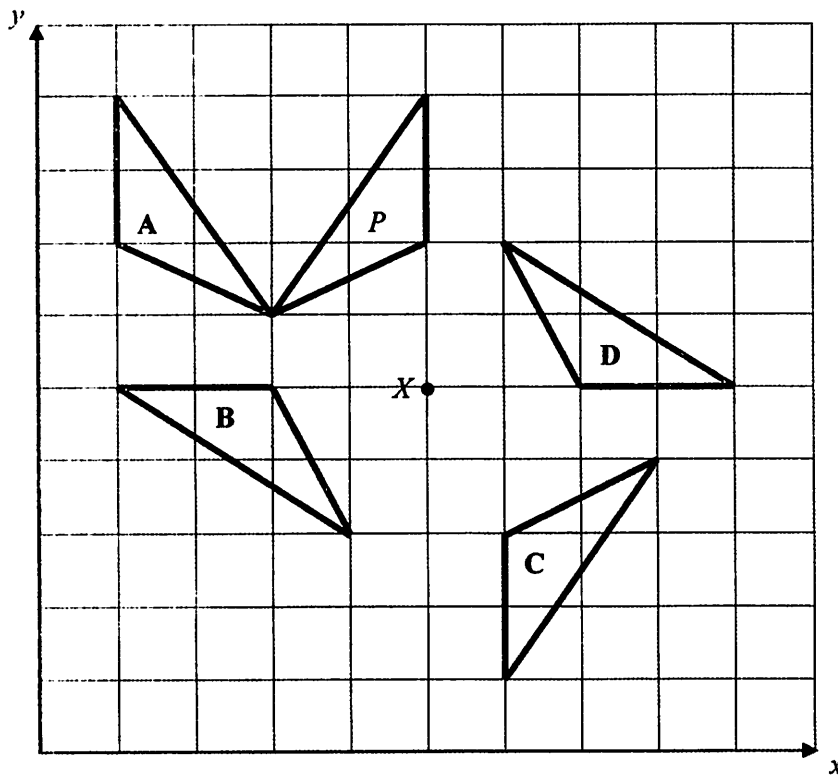


Diagram 4 / *Rajah 4*

Triangle P is rotated under an anticlockwise direction of 90° about centre X .
 Which of the triangle A , B , C or D , is the image of P ?
*Segitiga P diputar 90° lawan arah jam pada pusat X .
 Manakah antara segitiga A , B , C atau D , adalah imej bagi P ?*

- 11 Diagram 5 shows two quadrilaterals P and Q , drawn on a Cartesian plane. Quadrilateral Q is the image of quadrilateral P under an enlargement at centre M .
Rajah 5 menunjukkan dua sisiempat P dan Q dilukis pada satah Cartesian. Sisiempat Q ialah imej bagi sisiempat P di bawah suatu pembesaran yang berpusat di M .

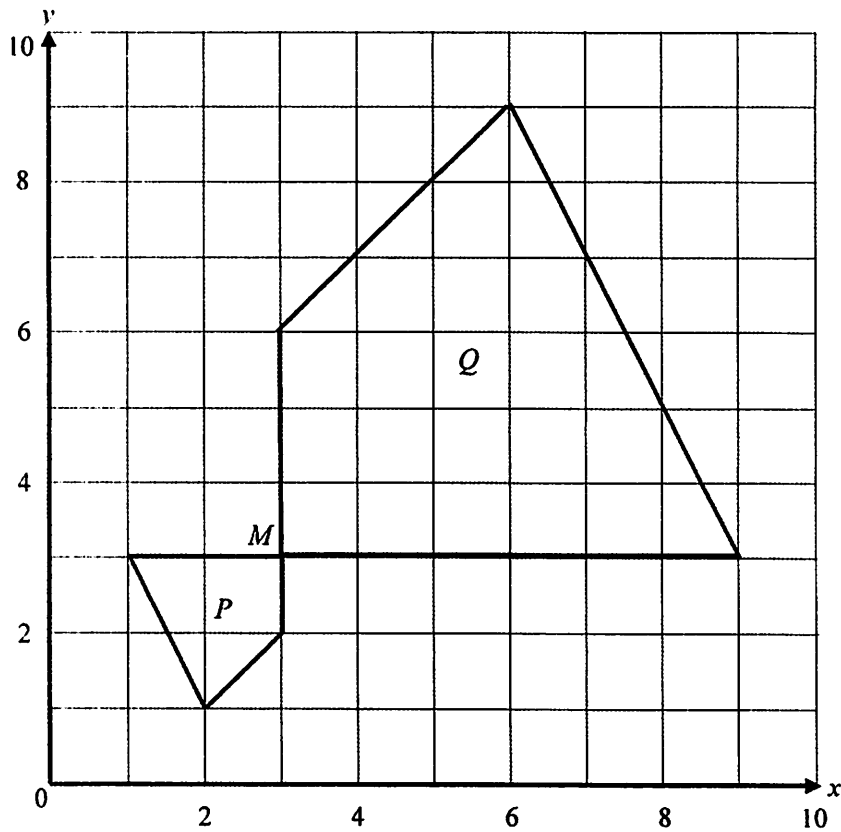


Diagram 5 / Rajah 5

Find the scale factor of the enlargement.
Cari faktor skala pembesaran itu.

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

- 12 Diagram 6 shows a right-angled triangle PQS . PQR is a straight line and $PQ = 15$ cm.
Rajah 6 menunjukkan sebuah segitiga sudut tegak PQS . PQR ialah garis lurus dan $PQ = 15$ cm.

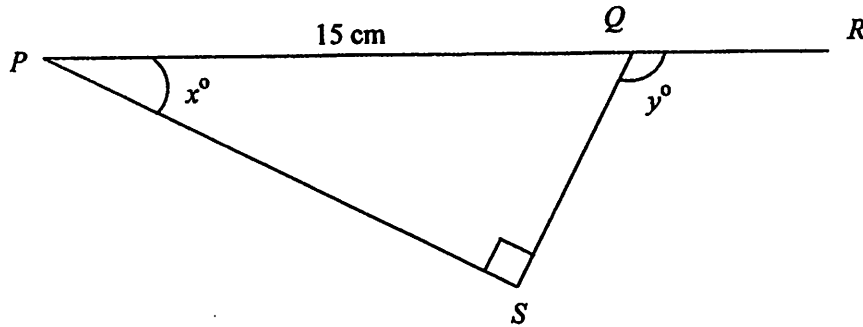


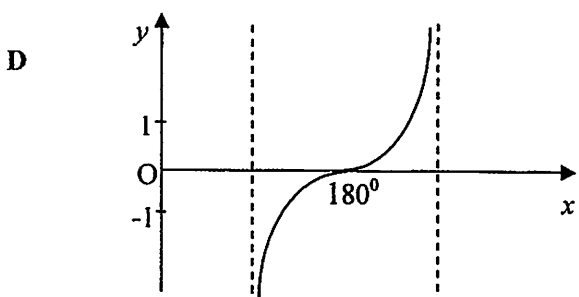
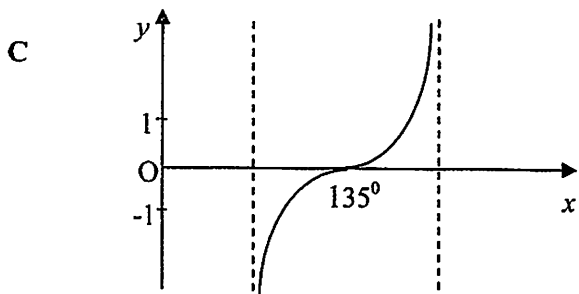
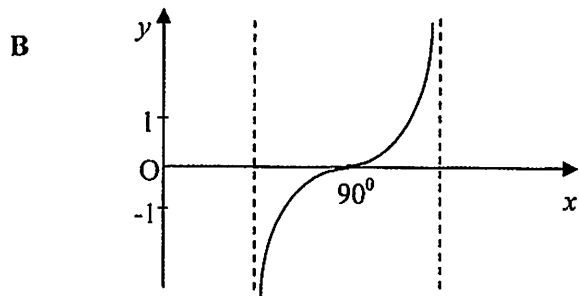
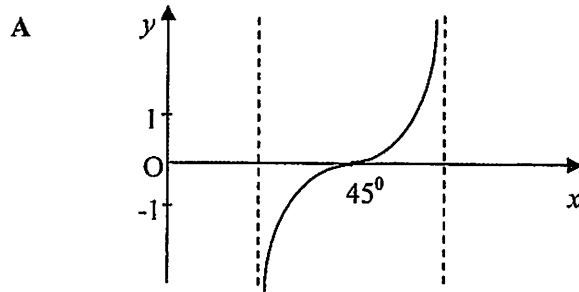
Diagram 6 / Rajah 6

Given that $\tan x^\circ = \frac{3}{4}$, find the value of $\cos y^\circ$.

Jika $\tan x^\circ = \frac{3}{4}$, cari nilai bagi $\cos y^\circ$.

- A $-\frac{2}{5}$
 B $-\frac{3}{5}$
 C $-\frac{3}{4}$
 D $-\frac{4}{5}$

- 13 Which of the graph refers to $y = \tan x^\circ$, for $0^\circ \leq x \leq 270^\circ$?
 Graf manakah mewakili $y = \tan x^\circ$ bagi $0^\circ \leq x \leq 270^\circ$?



- 14 Diagram 7 shows a right prism with the horizontal base $PQRS$.
Rajah 7 menunjukkan sebuah prisma tegak dengan tapak mengufuk PQRS.

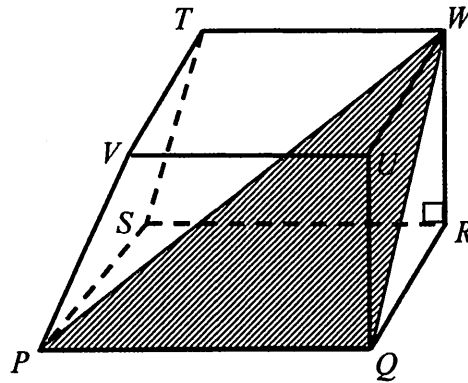


Diagram 7 / Rajah 7

Name the angle between the plane PQW and the plane $RSTW$.
Namakan sudut di antara satah PQW dengan satah $RSTW$.

- A $\angle WQR$
- B $\angle WPQ$
- C $\angle RWP$
- D $\angle RWQ$

- 15 In Diagram 8, PQ and RT are two blocks of buildings adjacent to each other on a horizontal ground. P , Q , R , S and T are five points on the building such that $PQ = ST$.
 Dalam Rajah 8, PQ dan RT ialah dua blok bangunan yang terletak bersebelahan antara satu sama lain di atas tanah mengufuk. P , Q , R , S dan T adalah lima titik pada bangunan dengan keadaan $PQ = ST$

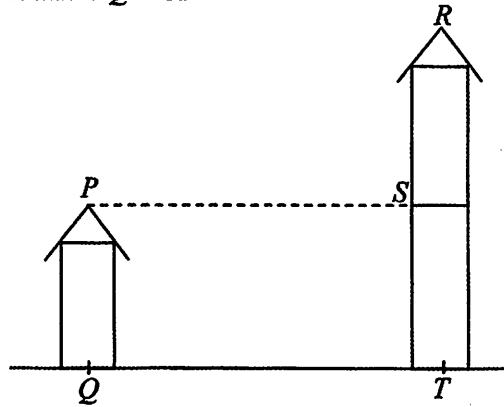


Diagram 8 / Rajah 8

Name the angle of elevation of point R from point P .
 Namakan sudut dongakan titik R dari titik P .

- A $\angle TPR$
- B $\angle TQR$
- C $\angle SPR$
- D $\angle SRP$

- 16 Diagram 9 shows a windmill RS . The point P , Q and R lie on a horizontal plane.
Rajah 9 menunjukkan sebuah kincir angin RS . Titik P , Q dan R terletak di pada satah mengufuk.

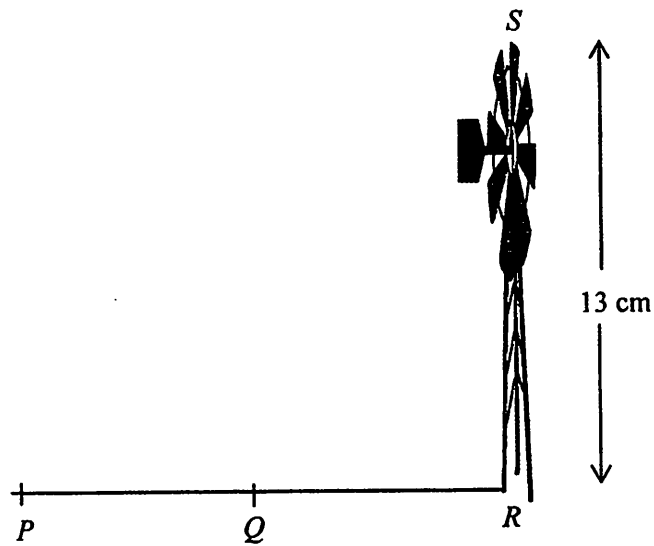


Diagram 9 / Rajah 9

The angle of depression of P from S is 35° and the angle of elevation of S from Q is 60° .
 Find distance between P and Q .

Sudut tunduk P dari S ialah 35° dan sudut dongak S dari Q ialah 60° . Cari jarak antara titik P dan Q .

- A 7.51
- B 11.06
- C 13.00
- D 18.57

- 17 In Diagram 10, PQ and QRS are tangents to the circle with centre O , at P and R respectively.
 Dalam Rajah 10, PQ dan QRS ialah tangen kepada bulatan berpusat O , pada P dan R masing-masing.

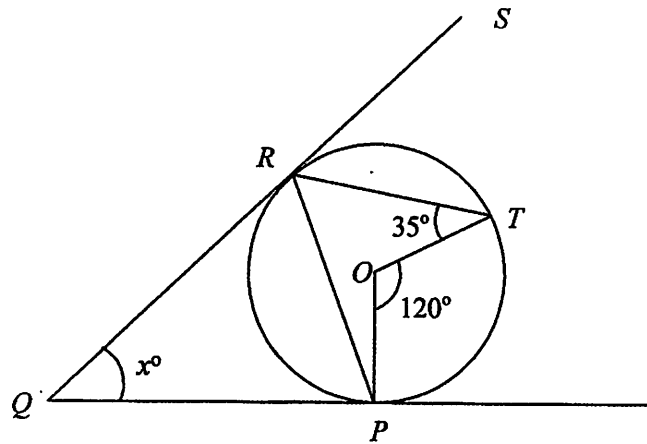


Diagram 10 / Rajah 10

Find the value of x .
 Carikan nilai bagi x .

- A 65
 B 60
 C 55
 D 50
- 18 Given $\frac{3^{2x}}{3^{-4}} = 3^8$, find the value of x .

Diberi $\frac{3^{2x}}{3^{-4}} = 3^8$, cari nilai x .

- A 1
 B 2
 C 4
 D 6

19 $s(r+2s) - (s+r)(s-r) =$

- A $s^2 + rs - r^2$
 B $s^2 + rs + r^2$
 C $s^2 - rs + r^2$
 D $s^2 - rs - r^2$

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

Ungkapkan $\frac{3+p}{p} \div \frac{2+p}{p^2}$ sebagai satu pecahan tunggal dalam bentuk termudah.

- A $\frac{3p+p^2}{2+p}$
 B $\frac{3+p^2}{2+p}$
 C $\frac{3+2p}{2+p}$
 D $\frac{3+p}{2+p}$

21 Given $h = \frac{n+3}{2n}$, express n in terms of h .

Diberi bahawa $h = \frac{n+3}{2n}$, ungkapkan n dalam sebutan h .

- A $n = \frac{3h-1}{2}$
 B $n = \frac{2}{3h-1}$
 C $n = \frac{2h-1}{3}$
 D $n = \frac{3}{2h-1}$

22 Given $\frac{2k-4}{3} = k-2$, calculate the value of k .

Diberi $\frac{2k-4}{3} = k-2$, hitung nilai k .

A -2

B $\frac{5}{6}$

C $\frac{6}{5}$

D 2

23 Given $12^{\frac{2}{3}} = \sqrt[m]{12^n}$, state the value of m and of n .

Diberi $12^{\frac{2}{3}} = \sqrt[m]{12^n}$, nyatakan nilai m dan nilai n .

A $m=3, n=2$

B $m=2, n=3$

C $m=3, n=\frac{1}{2}$

D $m=2, n=\frac{1}{3}$

24 $\sqrt[3]{\left(\frac{3}{4}\right)^{-2}} =$

A $\left(\frac{4}{3}\right)^{-\frac{3}{2}}$

B $\left(\frac{4}{3}\right)^{-\frac{2}{3}}$

C $\left(\frac{4}{3}\right)^{\frac{2}{3}}$

D $\left(\frac{4}{3}\right)^{\frac{3}{2}}$

- 25 Find the solution for $x + 1 \geq 2x - 2$.
Cari penyelesaian bagi $x + 1 \geq 2x - 2$.
- A $x \leq 3$
 - B $x \geq 3$
 - C $x \leq -3$
 - D $x \geq -3$
- 26 List all the integer values of x that satisfy both the simultaneous linear inequalities $3x - 5 > 1$ and $3 - 2x \geq -7$.
Senaraikan semua nilai integer x yang memuaskan kedua-dua ketaksamaan linear serentak $3x - 5 > 1$ dan $3 - 2x \geq -7$.
- A 2, 6
 - B 3, 4, 5
 - C 3, 4, 5, 6
 - D 2, 3, 4, 5, 6

- 27 Diagram 11 is an incomplete bar chart showing the hobbies of a group of students in a school. The bar of gardening is not drawn. The number of students interested in gardening is $\frac{1}{4}$ of the number of students interested in Surfing Internet,

Rajah 11 ialah carta palang yang tidak lengkap yang menunjukkan hobi bagi sekumpulan pelajar di sebuah sekolah. Palang bagi berkebun tidak dilukis. Bilangan pelajar yang minat berkebun ialah $\frac{1}{4}$ daripada bilangan pelajar yang minat melayari internet.

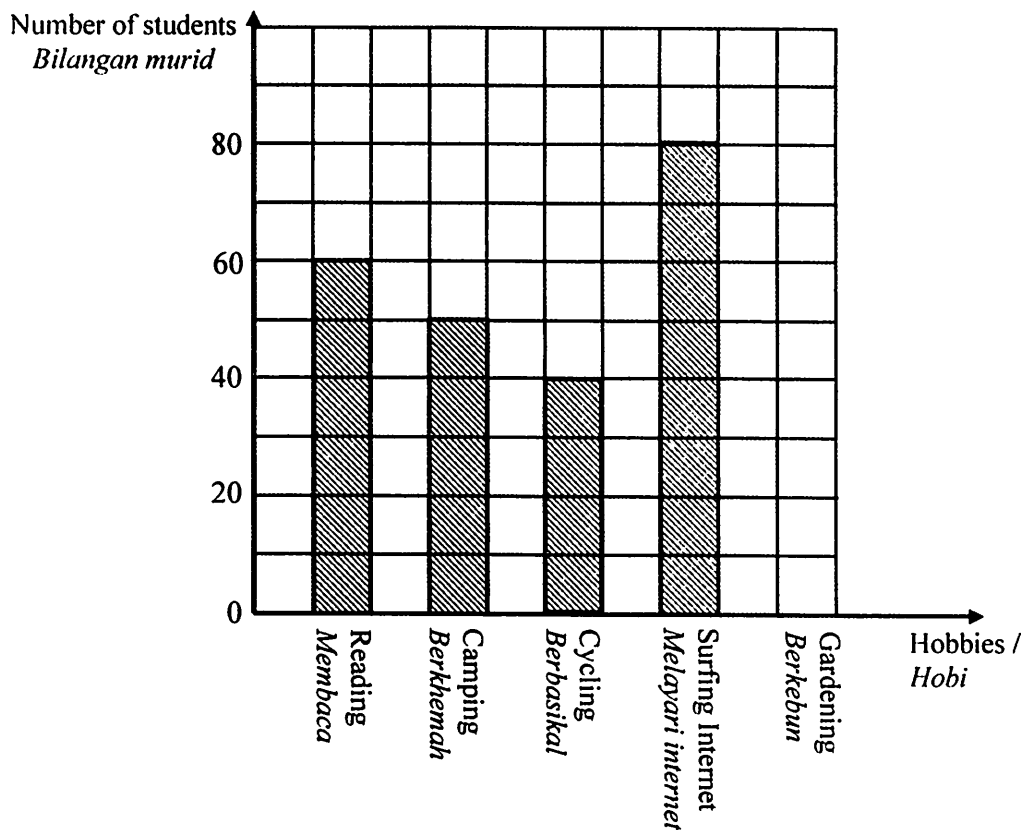




Diagram 11 / Rajah 11

If a pie chart is drawn to represent all the given information, find the angle of the sector representing the number of students that interested in camping.

Jika satu carta pai dilukis untuk mewakili semua maklumat yang diberi, cari sudut sektor yang mewakili bilangan murid yang minat berkhemah.

- A 29°
- B 72°
- C 85°
- D 116°

- 28 Diagram 12 is a pictogram which shows the sales of chicken rice at Ibuku Chicken Rice's stall on Friday and Sunday. The sales for Friday is not shown.
Rajah 12 ialah piktogram yang menunjukkan jualan nasi ayam di gerai Nasi Ayam Ibuku pada hari Jumaat dan Ahad. Jualan bagi hari Jumaat tidak ditunjukkan.

Friday <i>Jumaat</i>	
Saturday <i>Sabtu</i>	
Sunday <i>Ahad</i>	



Represent 10 plates of chicken rice
Mewakili 10 pinggan nasi ayam

Diagram 12 / *Rajah 12*

The sales of chicken rice on Friday, Saturday and Sunday are in the ratio 4 : 3 : 5. Find the total sales of chicken rice for the three days.

Jualan bagi nasi ayam bagi hari Jumaat, Sabtu dan Ahad adalah dalam nisbah 4 : 3 : 5. Cari jumlah jualan nasi ayam bagi tiga hari itu.

- A 100
 B 140
 C 180
 D 240
- 29 Table 1 is a frequency table which shows the scores obtained by participants of a game.
Jadual 1 ialah jadual kekerapan yang menunjukkan skor yang diperolehi peserta-peserta dalam suatu permainan.

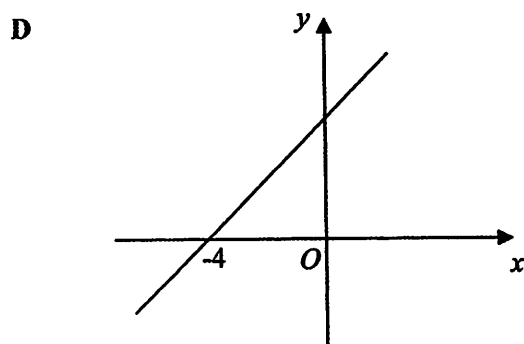
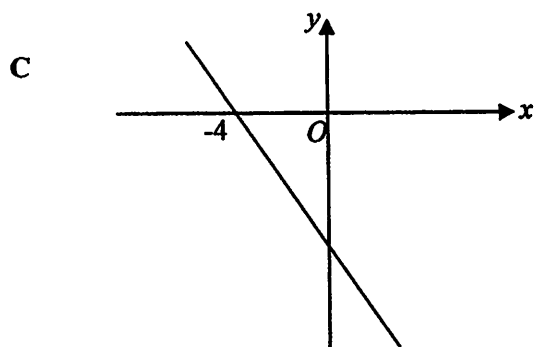
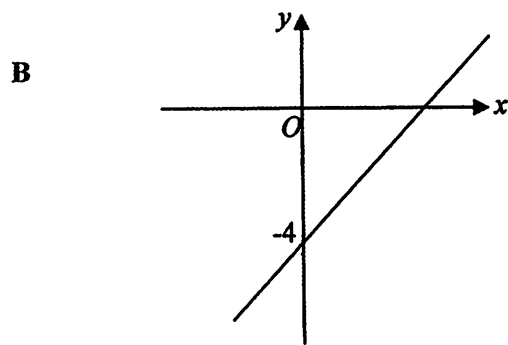
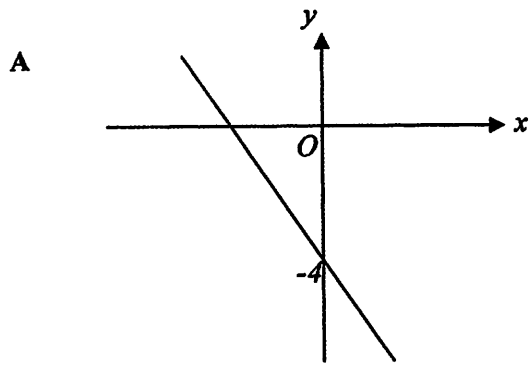
Score <i>Skor</i>	0	1	2	3	4	5
Frequency <i>Kekerapan</i>	3	4	6	5	1	3

Table 1 / *Jadual 1*

The number of participants who obtained scores more than the median score is
Bilangan peserta yang mendapat skor lebih daripada skor median ialah

- A 5
 B 7
 C 9
 D 11

- 30 Which graph represents $y = -2x - 4$?
Graf manakah yang mewakili $y = -2x - 4$?



- 31 Diagram 13 is a Venn diagram showing the elements in set P , set Q and set R .
Rajah 13 ialah gambar rajah Venn yang menunjukkan unsur-unsur dalam set P , set Q dan set R .

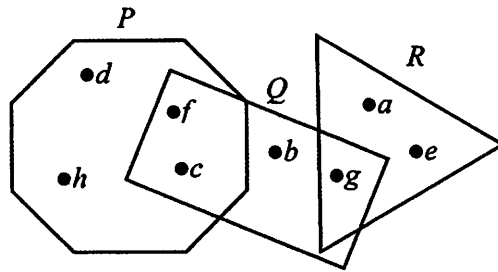


Diagram 13 / *Rajah 13*

List all the elements of Q' .
Senaraikan semua unsur bagi Q' .

- A {b, g}
 - B {b, c, f}
 - C {a, d, e, h}
 - D {a, b, d, e, h}
- 32 Diagram 14 is a Venn diagram showing the number of elements in set J , set K and set L .
Rajah 14 ialah gambar rajah Venn yang menunjukkan bilangan unsur dalam set J , set K dan set L .

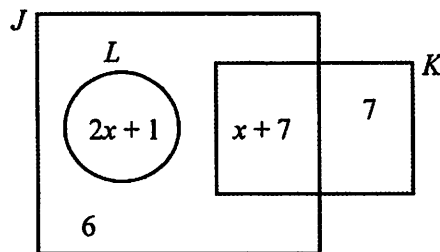


Diagram 14 / *Rajah 14*

It is given the universal set, $\xi = J \cup K \cup L$. If $n(J \cap L) = 13$, find the value of $n(J \cap K)$.
Diberi bahawa set semesta, $\xi = J \cup K \cup L$. Jika $n(J \cap L) = 13$, cari nilai $n(J \cap K)$.

- A 6
- B 7
- C 12
- D 13

- 33 In Diagram 15, the two straight lines intersect at M , on the y -axis. PM is a straight line with the equation of $2y = 3x + 12$.
Dalam Rajah 15, dua garis lurus bersilang di M , di pada paksi y . PM ialah garis lurus dengan persamaan $2y = 3x + 12$.

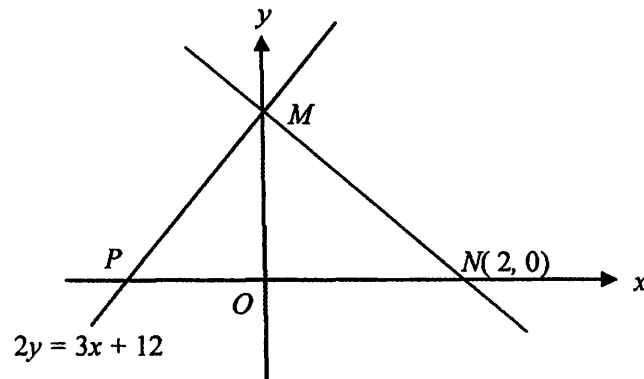


Diagram 15 / Rajah 15

Find the equation for straight line MN
Cari persamaan bagi garis lurus MN

- A $y = -3x + 6$
- B $y = 3x + 6$
- C $y = -3x + 4$
- D $y = 3x + 4$

- 34 In Diagram 16, MN is a straight line.
 Dalam Rajah 16, MN ialah garis lurus.

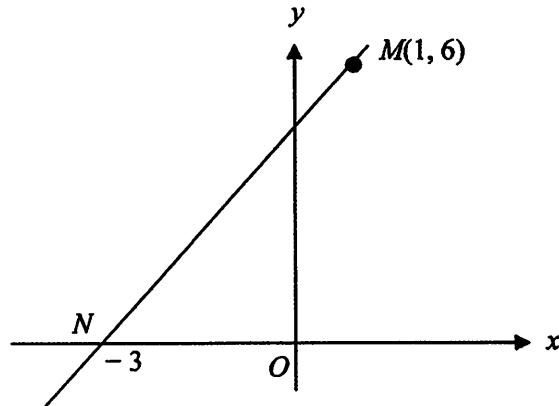


Diagram 16 / Rajah 16

The y -intercept of MN is
 Pintasan- y bagi MN ialah

- A 5
 B $\frac{9}{2}$
 C 4
 D $\frac{7}{2}$
- 35 Given that set $P = \{2, 3, 5\}$ and set $Q = \{6, 7, 8, 9\}$. An element is chosen at random from each set. Find the probability that the product of the two elements is an odd number
 Diberi bahawa set $P = \{2, 3, 5\}$ and set $Q = \{6, 7, 8, 9\}$. Satu unsur dipilih secara rawak daripada setiap set. Cari kebarangkalian hasil darab kedua-dua unsur itu adalah suatu nombor ganjil.
- A $\frac{1}{4}$
 B $\frac{1}{3}$
 C $\frac{7}{12}$
 D $\frac{4}{7}$

- 36 A farm has a contract to supply eggs to a supermarket weekly. The eggs supplied have the probability of 0.01 to be not in good condition.
From a supply of 6 000 eggs, find the expected number of eggs which are not in good condition.
*Sebuah ladang ternakan mendapat kontrak membekalkan telur kepada sebuah pasar raya secara mingguan. Telur yang dibekalkan mempunyai kebarangkalian 0.01 berada dalam keadaan kurang baik.
Daripada 6 000 biji telur yang dibekalkan, cari bilangan telur yang dijangkakan kurang baik.*
- A 6
B 10
C 60
D 600
- 37 Given that $y \propto \sqrt{x}$ and $y = 24$ apabila $x = 16$.
Find the value of x when $y = 54$.
*Diberi bahawa $y \propto \sqrt{x}$ dan $y = 24$ apabila $x = 16$.
Cari nilai x apabila $y = 54$.*
- A 3
B 9
C 18
D 81

- 38 Table 2 shows the values of y , x and z . It is given that y varies directly as the square of x and inversely as the cube of z .

Jadual 2 menunjukkan nilai-nilai y , x dan z . Diberi bahawa y berubah secara langsung dengan kuasa dua x dan secara songsang dengan kuasa tiga z .

Find the value of m .

Cari nilai m

y	4	m
x	2	4
z	3	2

Table 2 / *Jadual 2*

- A $\frac{81}{4}$
- B $\frac{27}{2}$
- C 54
- D 108
- 39 Given $\begin{pmatrix} p \\ 3 \end{pmatrix} \begin{pmatrix} 4 & q \end{pmatrix} = \begin{pmatrix} -12 & -6 \\ 12 & 6 \end{pmatrix}$. Find the value of p and of q

Diberi $\begin{pmatrix} p \\ 3 \end{pmatrix} \begin{pmatrix} 4 & q \end{pmatrix} = \begin{pmatrix} -12 & -6 \\ 12 & 6 \end{pmatrix}$. Cari nilai p dan nilai q

- A $p = -3, q = 2$
- B $p = -3, q = -2$
- C $p = 2, q = -3$
- D $p = 2, q = 3$

$$40 \quad 2 \begin{pmatrix} 3 & 1 \\ 0 & -1 \end{pmatrix} - \begin{pmatrix} -3 & 2 \\ 1 & -1 \end{pmatrix} =$$

$$\text{A} \quad \begin{pmatrix} 3 & 0 \\ -1 & -2 \end{pmatrix}$$

$$\text{B} \quad \begin{pmatrix} 9 & 0 \\ -3 & -1 \end{pmatrix}$$

$$\text{C} \quad \begin{pmatrix} -9 & 4 \\ -1 & -1 \end{pmatrix}$$

$$\text{D} \quad \begin{pmatrix} 9 & 0 \\ -1 & -1 \end{pmatrix}$$

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. Each question is followed by four alternative answers, **A, B, C** or **D**. For each question, choose **one** answer only. Blacken your answer on the objective answer sheet provided.
Tiap-tiap soalan diikuti oleh empat pilihan jawapan, iaitu A, B, C dan D. Bagi setiap soalan, pilih satu jawapan sahaja. Hitamkan jawapan anda pada kertas jawapan objektif yang disediakan.
4. If you wish to change your answer, erase the blackened mark that you have made. Then blacken the new answer.
Jika anda hendak menukar jawapan, padamkan tanda yang telah dibuat. Kemudian hitamkan jawapan yang baru.
5. The diagrams in the questions provided are not drawn to scale unless stated.
Rajah yang mengiringi soalan tidak dilukis mengikut skala kecuali dinyatakan.
6. A list of formulae is provided on pages 2 to 4.
Satu senarai rumus disediakan di halaman 2 hingga 4.
7. A booklet of four-figure mathematical tables is provided.
Sebuah buku sifir matematik empat angka disediakan.
8. You may use a non-programmable scientific calculator.
Anda dibenarkan menggunakan kalkulator saintifik yang tidak boleh diprogram.