

**JABATAN PELAJARAN NEGERI TERENGGANU****PEPERIKSAAN PERCUBAAN (OTI 2)
SIJIL PELAJARAN MALAYSIA 2010
MATHEMATICS****1449/1**

Kertas 1

Ogos

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:
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Kertas soalan ini mengandungi 36 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

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

**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 = $2\pi r h$
- 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 = $\frac{1}{3} \times \text{base area} \times \text{height}$
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 $\frac{\text{arc length}}{\text{circumference of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$
- 13 $\frac{\text{panjang lengkok}}{\text{ilitian bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$
- 14 $\frac{\text{luas sektor}}{\text{luas bulatan}} = \frac{\text{angle subtended at centre}}{360^\circ}$
- 15 $\frac{\text{luas imej}}{\text{luas objek}} = k^2$
- 16 $\text{Faktor skala, } k = \frac{PA'}{PA}$
- 17 $\text{Area of image} = k^2 \times \text{area of object}$

- 1 Find the value of $0.03975 - 0.0149 \div 5$, and round off the answer correct to three significant figure.
Cari nilai $0.03975 - 0.0149 \div 5$, dan bundarkan jawapan itu betul kepada tiga angka bererti.

A 0.03
B 0.0367
C 0.0368
D 0.0497

- 2 Express 0.000000765 in standard form.
Ungkapkan 0.000000765 dalam bentuk piawai.

A 7.65×10^{-7}
B 7.65×10^{-6}
C 7.65×10^6
D 7.65×10^7

- 3 $8.653 \times 10^{-6} - 3.47 \times 10^{-7} =$

A 5.183×10^{-6}
B 8.306×10^{-6}
C 5.183×10^6
D 8.306×10^6

- 4 A rectangular of swimming pool has an area $3.85 \times 10^{12} \text{ m}^2$ and a length is $2.5 \times 10^{10} \text{ cm}$. Find its width, in cm.
Sebuah kolam renang yang berbentuk segiempat tepat mempunyai luas $3.85 \times 10^{12} \text{ m}^2$ dan panjangnya berukuran $2.5 \times 10^{10} \text{ cm}$. Cari lebarnya, dalam cm.

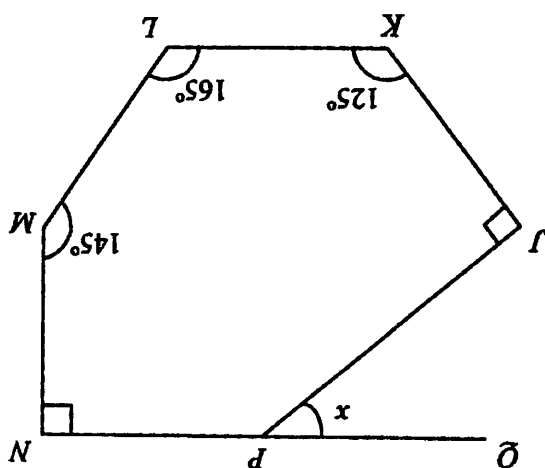
- A 1.54×10^2
- B 1.54×10^3
- C 1.54×10^4
- D 1.54×10^6

- 5 State the value of digit 4 in the number 5467_8 in base ten.
Nyatakan nilai bagi digit 4 bagi nombor 5467_8 dalam asas sepuluh.

- A 32
- B 64
- C 256
- D 320

6 $10101_2 - 1011_2 =$

- A 1000_2
- B 1001_2
- C 1010_2
- D 1100_2



7 In Diagram 1, $JKLMNP$ is a polygon, QP is a straight line.
 Dalam Rajah 1, $JKLMNP$ ialah polygon, QP ialah garis lurus.

Find the value of x .
 Cari nilai x

- A 65°
- B 75°
- C 85°
- D 105°

Diagram 1 / Rajah 1

8 In Diagram 2, $PQRST$ is a pentagon, TS is parallel to QR .
 Dalam Rajah 2, $PQRST$ ialah sebuah pentagon, TS adalah selari dengan QR .

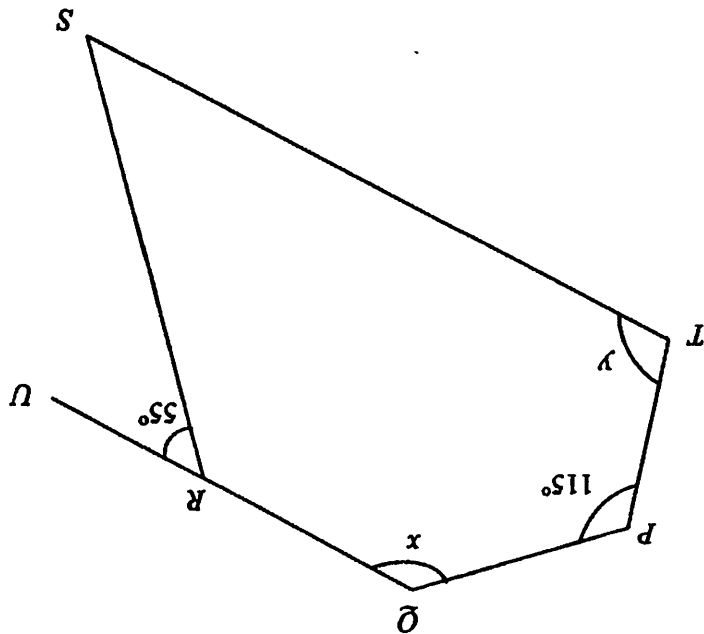


Diagram 2 / Rajah 2

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

- A 120°
- B 170°
- C 225°
- D 245°

9 In Diagram 3, PQR is a tangent to the circle with centre O , at Q .
 Dalam Rajah 3, PQR ialah tangen kepada bulatan dengan pusat O di Q .

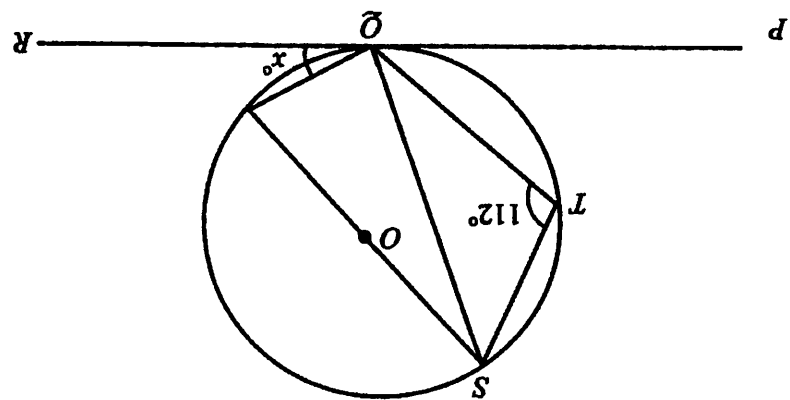


Diagram 3 / Rajah 3

Find the value of x .
 Cari nilai x .

- A 22
- B 34
- C 56
- D 68

- 10 Diagram 4 shows seven points drawn on a Cartesian plane. P' is the image of P under reflections.

Rajah 4 menunjukkan tujuh titik dilukis pada satah Cartesian. P' ialah imej bagi P di bawah satu pantulan.

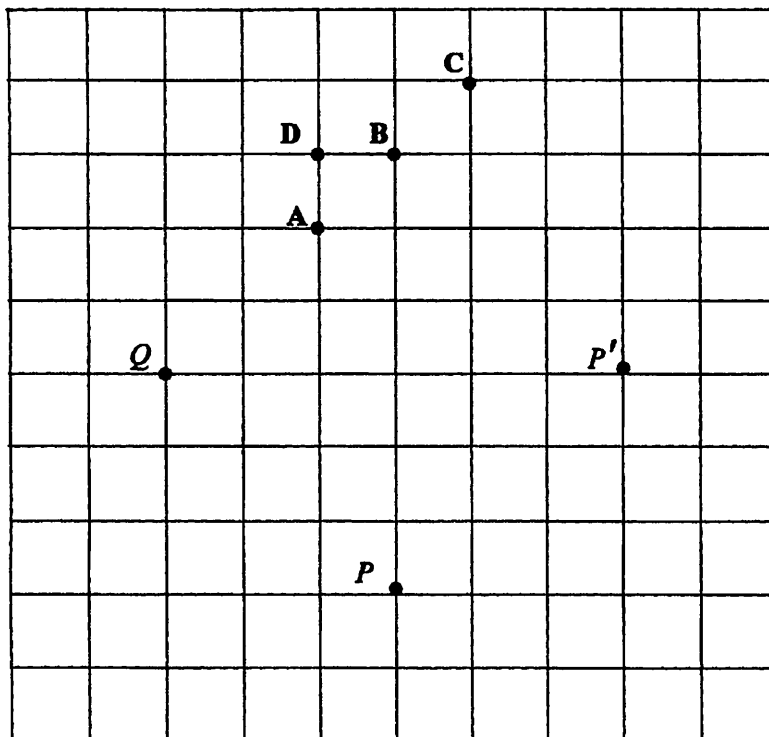


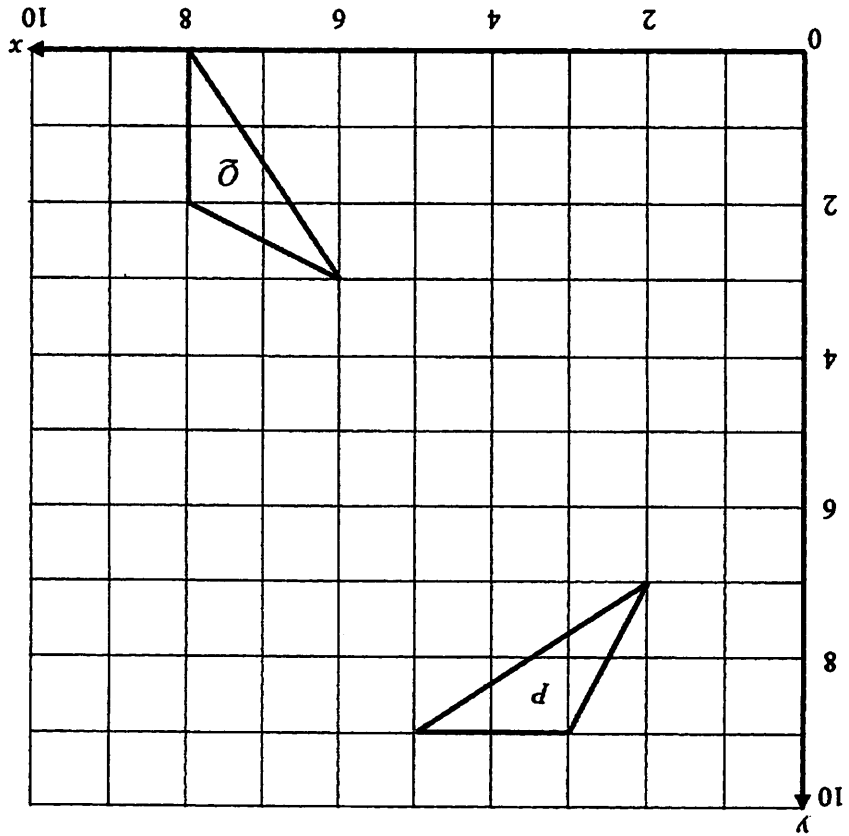
Diagram 4 / Rajah 4

Which of the points A, B, C or D, is the image of Q under same reflection?
Manakah antara titik A, B, C atau D, adalah imej bagi Q di bawah pantulan yang sama?

- A (2,3)
- B (2,4)
- C (3,3)
- D (4,5)

Find the coordinates of the centre of rotation.
Cari koordinat bagi pusat putaran.

Diagram 5 / Rajah 5



11 Diagram 5 shows two triangles, P and Q , drawn on a Cartesian plane. Triangle Q is the image of triangle P under a clockwise rotation 90° .
Rajah 5 menunjukkan dua segitiga P dan Q ditukis pada satah Cartesian. Segitiga Q ialah imej bagi segitiga P di bawah suatu putaran 90° arah ikut jam.

12

In Diagram 6, PQR is a straight line.
 Dalam rajah 6, PQR ialah garis lurus.

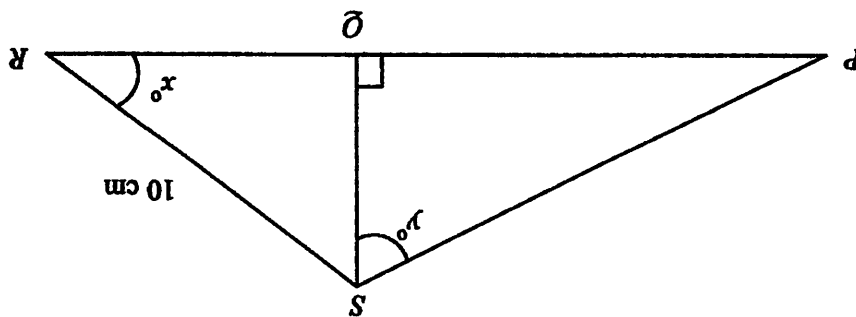


Diagram 6 / Rajah 6

It is given that $\sin x^\circ = \frac{5}{3}$ and $\cos y^\circ = \frac{12}{13}$.

Find the length, in cm, of PQR .

Diberi bahawa $\sin x^\circ = \frac{5}{3}$ dan $\cos y^\circ = \frac{12}{13}$.

Cari panjang, dalam cm, bagi PQR .

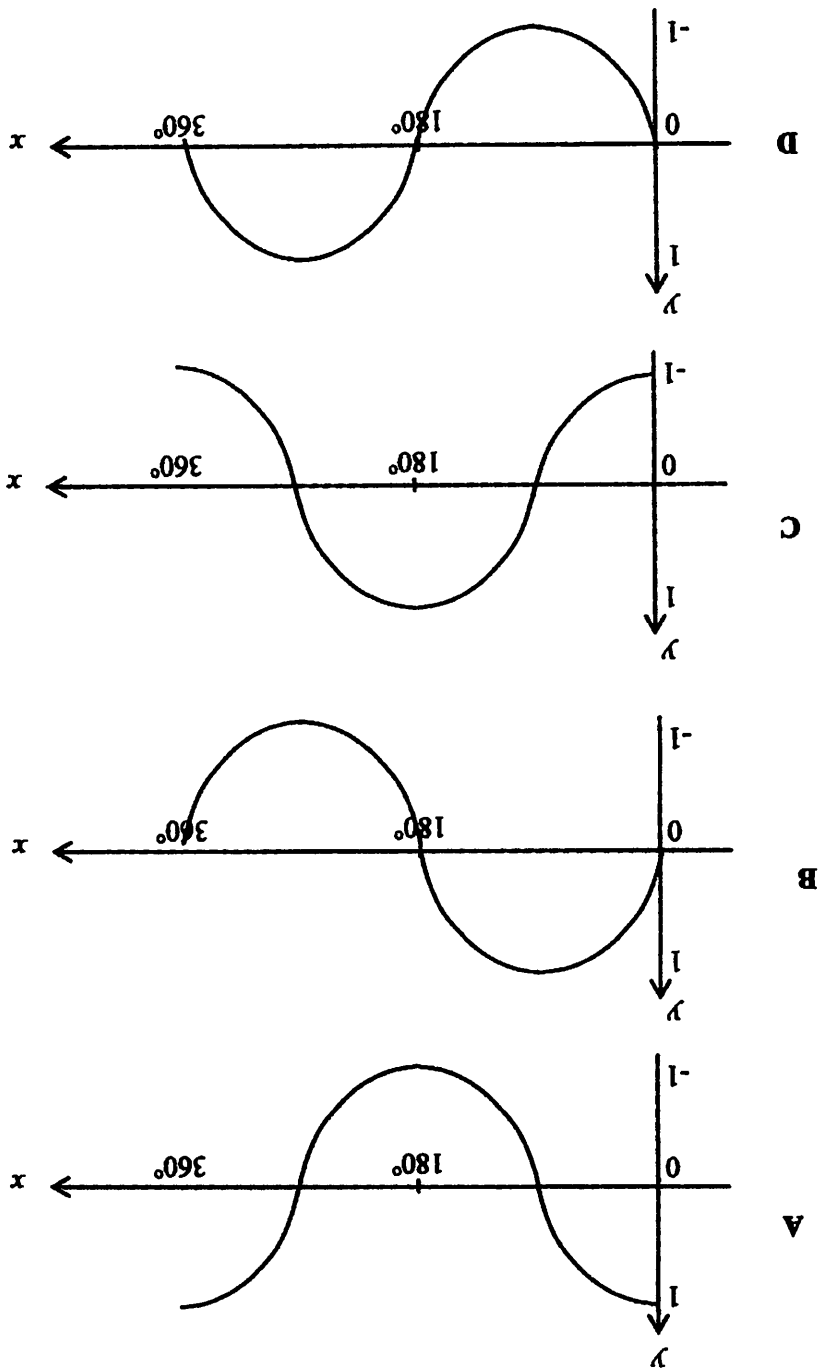
A 6.5

B 9

C 10.5

D 13

13 Which of the graph refers to $y = \cos x^\circ$, for $0^\circ \leq x \leq 360^\circ$?
 Graf manakah mewakili $y = \cos x^\circ$ bagi $0^\circ \leq x \leq 360^\circ$?



14 Diagram 7 shows a right prism with the horizontal base PQR . A right-angled triangle, PQR the uniform cross section of the prism.
Rajah 7 menunjukkan sebuah prisma tegak dengan tapak mengufuk PQR . Segitiga bersudut tegak PQR ialah keratan rentas seragam prisma itu.

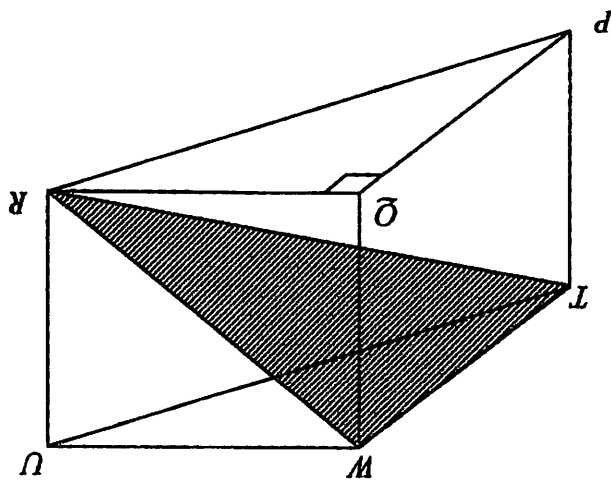


Diagram 7 / Rajah 7

Name the angle between the plane TRW and the plane PQR
 Namakan sudut di antara satah TRW dengan satah PQR .

- A $\angle TRP$
- B $\angle TWR$
- C $\angle WRQ$
- D $\angle WRP$

15 In Diagram 8, PQ and RT are two lighthouses on a horizontal ground. The height of RT is twice the height of PQ . The angle of depression of P from R is 43° .
 Dalam Rajah 8, PQ dan RT ialah dua rumah api yang terletak di atas tanah
 mengufuk. Tinggi RT ialah dua kali tinggi PQ . Sudut tunduk P dari R ialah 43° .

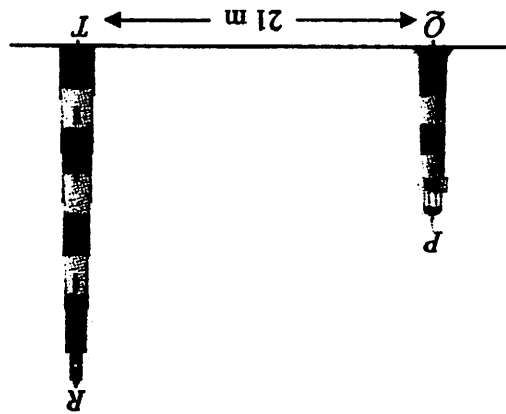


Diagram 8 / Rajah 8

Calculate the height, in m, of the lighthouse RT .
 Hitungkan tinggi, dalam m, bagi rumah api RT .

- A 19.58
- B 28.64
- C 30.72
- D 39.17

- 16 Diagram 9 shows a vertical tower SQ on a horizontal plane. The point P , Q , and R lie on the plane.
Rajah 9 menunjukkan sebuah menara tegak SQ di atas satah mengufuk. Titik P , Q dan R terletak di atas satah itu.

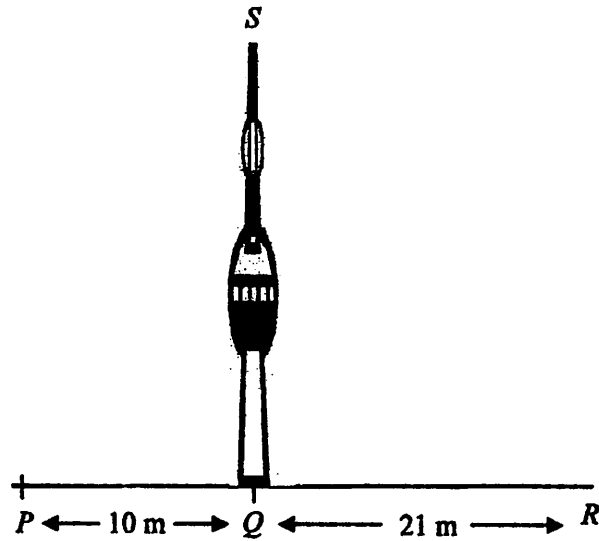


Diagram 9 / Rajah 9

The angle of elevation of the vertex S from P is 53° . Find the angle of elevation of the vertex S from R .

Sudut dongakan puncak S dari P ialah 53° . Cari sudut dongakan puncak S dari R .

- A $25^\circ 28'$
- B $32^\circ 17'$
- C $57^\circ 43'$
- D $64^\circ 32'$

17 Diagram 10 shows three points P , Q and R , on a horizontal plane. The points form an isosceles triangle such that $PR = PQ$.
 Rajah 10 menunjukkan tiga titik P , Q dan R di atas satah mengufuk. Titik-titik itu membentuk sebuah tiga sisi sama kaki dengan keadaan $PR = PQ$.

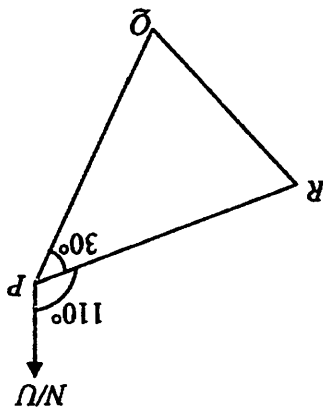


Diagram 10 / Rajah 10

Find the bearing of point R from point Q .
 Cari bearing titik R dari titik Q .

- A 050°
- B 145°
- C 220°
- D 325°

18 In Diagram 11, *N* is North Pole, *S* is South Pole, *O* is the centre of the earth.
 Dalam Rajah 11, *N* ialah Kutub Utara, *S* ialah Kutub Selatan, *O* ialah pusat bumi.

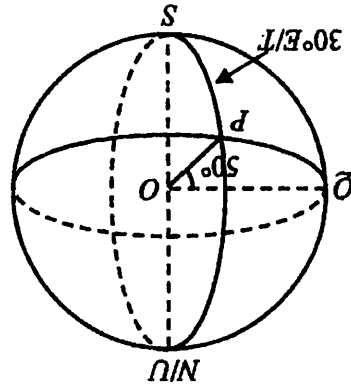


Diagram 11 / Rajah 11

Find the longitude of *Q*
 Carikan longitud bagi *Q*

- A 80° E/T
- B 80° W/B
- C 20° E/T
- D 20° W/B

19 Given that $3 - \frac{1}{2}m = 4 - 2(3 - m)$, find the value of *m*.
 Diberi $3 - \frac{1}{2}m = 4 - 2(3 - m)$, cari nilai *m*.

- A 1
- B 2
- C 6
- D 8

- A $k = \frac{3h-1}{4}$
 B $k = \frac{3h-1}{3}$
 C $k = \frac{4h-1}{2}$
 D $k = \frac{2h-1}{3}$

Diberi bahawa $h = \frac{k+4}{3k}$, ungkapkan k dalam sebutan h .

21 Given $h = \frac{k+4}{3k}$, express k in terms of h .

- A $\frac{6}{3m-10}$
 B $\frac{6}{5m-2}$
 C $\frac{6}{2m-3}$
 D $\frac{6}{5m-12}$

Ungkapkan $\frac{2}{2m-3} - \frac{6}{m+3}$ sebagai satu pecahan tunggal dalam bentuk termondah.

20 Express $\frac{2}{2m-3} - \frac{6}{m+3}$ as a single fraction in its simplest form.

- A $\left(\frac{1}{3}\right)^{\frac{3}{2}}$
- B $\left(\frac{1}{3}\right)^{\frac{2}{3}}$
- C $\left(\frac{1}{3}\right)^{\frac{3}{2}}$
- D $\left(\frac{1}{3}\right)^{\frac{2}{3}}$

24 $\sqrt[3]{\left(\frac{1}{3}\right)^{-3}} =$

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

23 Given $3^{\frac{3}{2}} = \sqrt[n]{27^m}$, state the value of m and of n .
 Diberi $3^{\frac{3}{2}} = \sqrt[n]{27^m}$, nyatakan nilai m dan nilai n .

- A -10
- B -2
- C 2
- D 10

22 Given $2n - 4 = 3(2 - n)$, calculate the value of n .
 Diberi $2n - 4 = 3(2 - n)$, hitungkan nilai n .

25 Find the solution for $\frac{x}{3} + 3 \leq 1 + x$.

Cari penyelesaian bagi $\frac{x}{3} + 3 \leq 1 + x$.

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 linear inequalities

$$3x - 2 \leq 2 < x + 5.$$

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

$$3x - 2 \leq 2 < x + 5.$$

A $-3, -2, -1, 0, 1$

B $-3, -2, -1, 0$

C $-2, -1, 0, 1$

D $-2, -1, 0, 1, 2$

- 27 Diagram 10 is a bar chart showing the number of doctors in hospitals *W*, *X*, *Y* and *Z* according to gender.
Rajah 10 ialah carta palang yang menunjukkan bilangan doktor di hospital W, X, Y and Z mengikut jantina.

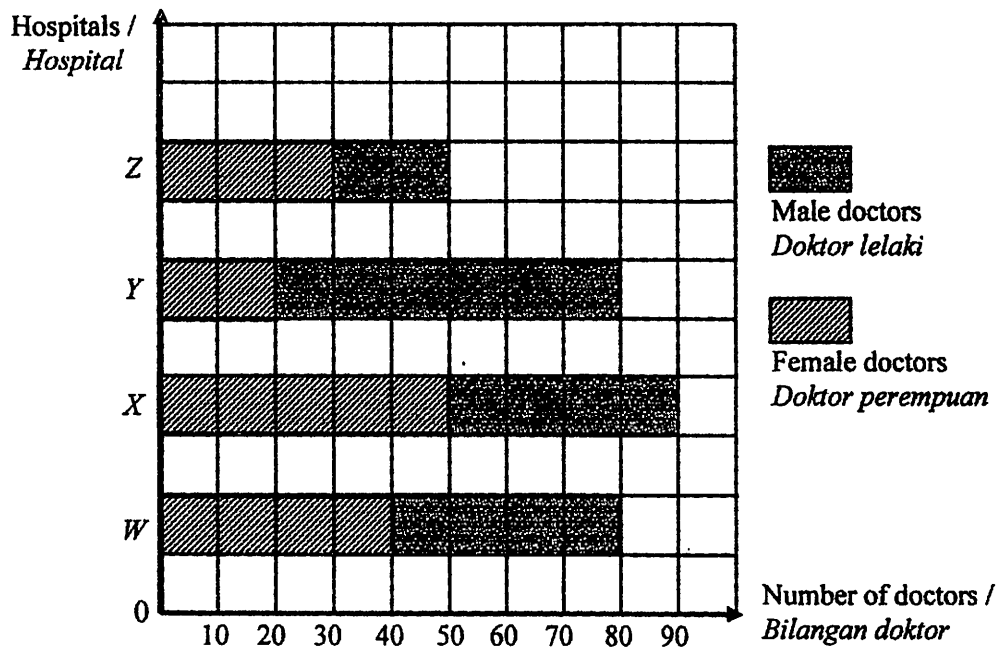
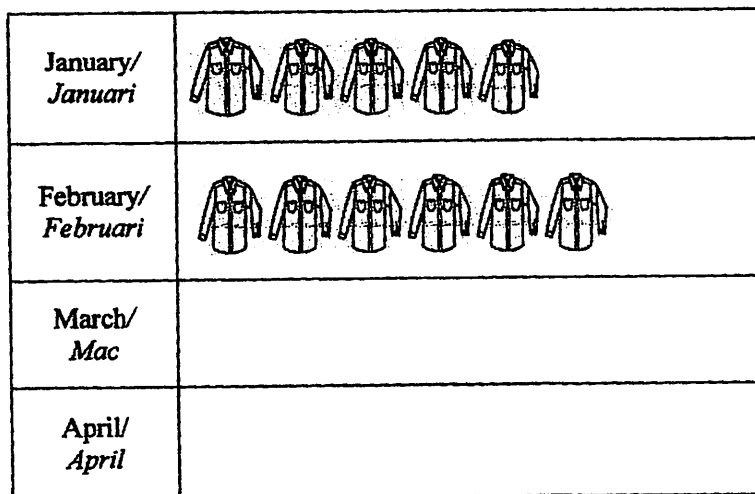


Diagram 10 / *Rajah 10*

Find the difference of male and female doctors in all the four hospitals.
Cari perbezaan di antara doktor lelaki dan perempuan bagi kesemua empat hospital itu.

- A 20
- B 30
- C 40
- D 50

- 28 Diagram 11 is a pictograph which shows the sales of batik shirts at a shop in the month of January and February. The sales for the month of March and April are not shown.
Rajah 11 ialah piktogram yang menunjukkan jualan baju batik di sebuah kedai bagi bulan Januari dan Februari. Jualan bagi bulan Mac dan April tidak ditunjukkan



Represent 20 batik shirts
 Mewakili 20 baju batik

Diagram 11 / Rajah 11

A total of 570 batik shirts were sold in these four months. The ratio of batik shirts sold in the month of March to the month of April is 4 : 3.

Find the sales of batik shirt for the month of March.

Sejumlah 570 helai baju batik telah dijual dalam empat bulan ini. Nisbah jualan baju batik yang dijual dalam bulan Mac kepada bulan April adalah 4 : 3.

Cari jualan baju batik bagi bulan Mac.

- A 150
- B 180
- C 200
- D 220

29 Table 1 is a frequency table which shows the results of SPM mathematics examination in a school.
 Jadual 1 ialah jadual kekerapan yang menunjukkan keputusan peperiksaan matematik SPM di sebuah sekolah.

Grade	Kekerapan
A+	3
A	13
A-	16
B+	43
B	17
C+	9
C	14
D	14
E	31

Table 1 / Jadual 1

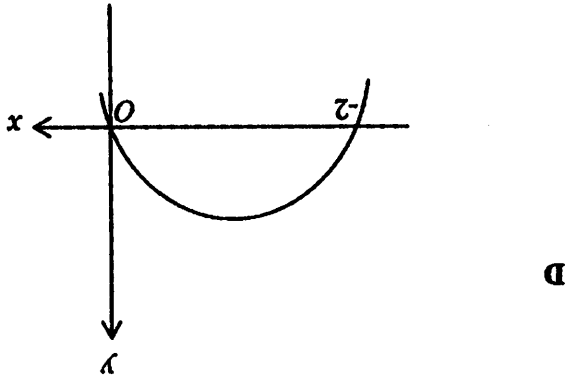
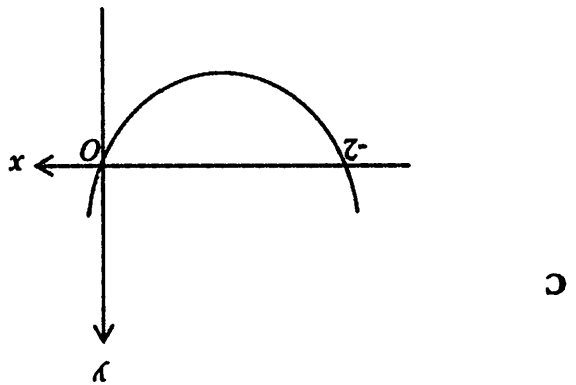
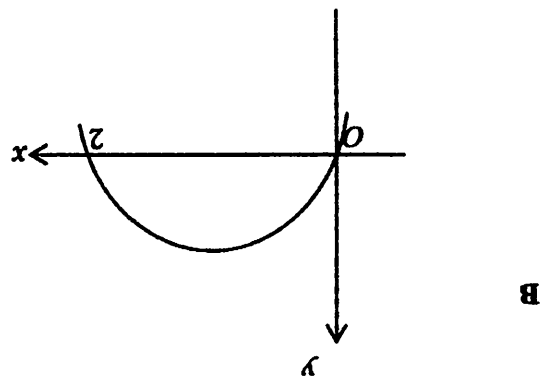
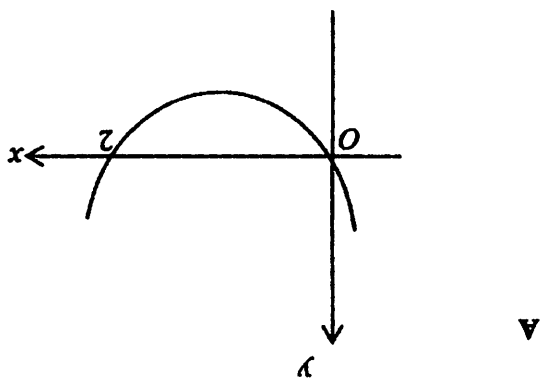
Calculate the number of candidates who achieved better grades than the modal grade.
 Hitung bilangan calon yang mencapai gred lebih baik dari gred mod.

- A 32
- B 59
- C 97
- D 129

30

Which graph represents $y = x^2 - 2x$?

Graf manakah yang mewakili $y = x^2 - 2x$?



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

Which regions represent set $(K \cup M) \cap L$?
 Kawasan manakah mewakili set $(K \cup M) \cap L$?

Diagram 12 / Rajah 12

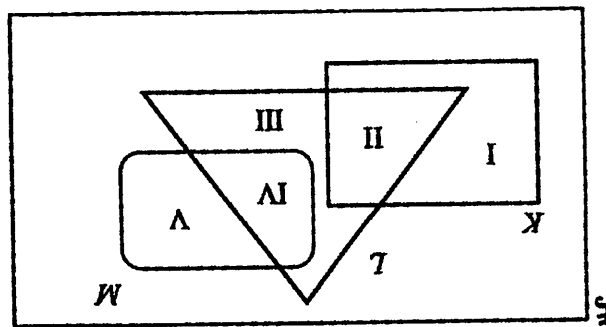


Diagram 12 is a Venn diagram showing the set ξ , set K, set L and set M.
 Rajah 12 ialah gambar rajah Venn yang menunjukkan set ξ , set K, set L dan set M.

31

32

Diagram 13 is a Venn diagram shows set ξ , set P and set Q .
Rajah 13 ialah gambar rajah Venn yang menunjukkan set ξ , set P dan set Q .

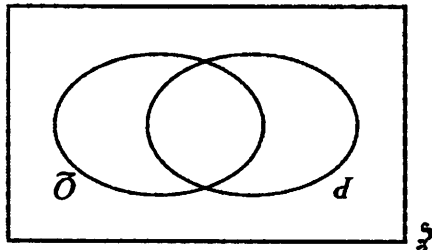


Diagram 13 / Rajah 13

It is given $n(P) = 39$, $n(Q) = 45$, $n(P \cap Q) = 16$ and $n(P \cup Q) = 28$. Find $n(\xi)$.
Diberi bahawa $n(P) = 39$, $n(Q) = 45$, $n(P \cap Q) = 16$ dan $n(P \cup Q) = 28$. Cari $n(\xi)$.

- A 96
- B 106
- C 112
- D 118

33 In Diagram 14, EF and FG are two straight lines. Given that the gradient of GF is $\frac{2}{1}$ and the gradient of GF is $\frac{1}{2}$.
 Dalam Rajah 14, EF dan FG adalah dua garis lurus. Diberi kecerunan GF ialah $\frac{1}{2}$ dan kecerunan GF ialah $\frac{2}{1}$.

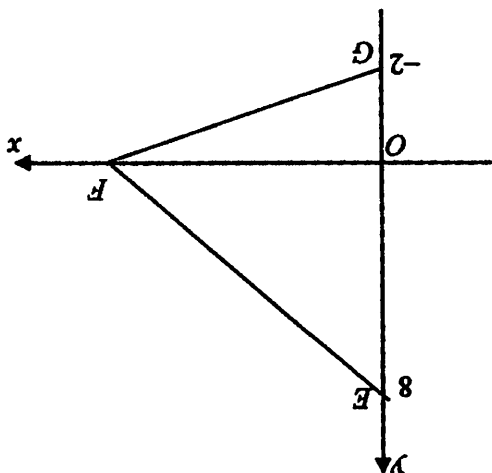


Diagram 14 / Rajah 14

The gradient of EF is $\frac{2}{1}$.
 Kecerunan garis EF adalah $\frac{2}{1}$.

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

- 34 In Diagram 15, the gradient of line MN is 2,
Dalam Rajah 15, kecerunan garis MN adalah 2.

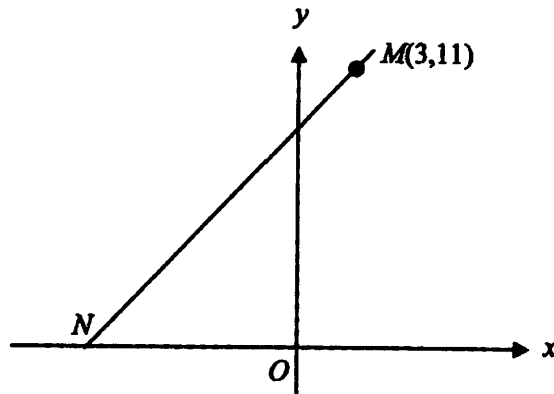


Diagram 15 / Rajah 15

The x-intercept of MN is
Pintasan-x bagi MN ialah.

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

- 35 A classroom has wooden and plastic chairs. If a chair is chosen at random, the probability that it is a wooden chair is $\frac{3}{7}$. If the classroom has 24 of plastic chairs, calculate the total number of chairs in the classroom.

Sebuah bilik kelas mempunyai kerusi kayu dan kerusi plastik, Jika suatu kerusi diambil secara rawak, kebarangkalian ia adalah kerusi kayu ialah $\frac{3}{7}$. Jika kelas mempunyai 24 kerusi plastik, hitung bilangan semua kerusi di dalam kelas itu.

- A 36
B 42
C 54
D 56

36



Diagram 16 / Rajah 16

Diagram 16 shows cards written with the letters from the word 'RECURRENCE', which are placed in a box. A number of additional cards with letter 'E' are put into the box before a card is drawn at random. Find the number of additional cards, if the probability of obtaining a card with the letter 'E' is $\frac{2}{3}$.

Rajah 16 menunjukkan kad-kad yang bertulis huruf-huruf daripada perkataan 'RECURRENCE' yang ditempatkan dalam sebuah kotak. Beberapa keping kad tambahan bertulis huruf 'E' dimasukkan ke dalam kotak itu sebelum sekeping kad dikeluarkan secara rawak. Cari bilangan kad tambahan jika kebarangkalian mendapat kad yang bertulis huruf 'E' ialah $\frac{2}{3}$.

- A 2
B 3
C 5
D 11

- 37 Given that y varies directly to square of x , and $y = 24$ when $x = 4$.
Find the value of x when $y = 96$.
*Diberi bahawa y berubah secara langsung dengan kuasa dua x , dan $y = 24$ apabila $x = 4$.
Cari nilai x apabila $y = 96$.*

- A 4
B 8
C 16
D 64

- 38 Table 2 shows pairs of the corresponding values of x and of y . Given that y varies directly to square of A , where $A = x + 3$.
Find the value of m .
*Jadual 2. menunjukkan pasangan nilai-nilai x dan y yang berpadanan. Diberi y berubah secara langsung dengan kuasa dua A , di mana $A = x + 3$
Cari nilai m .*

y	5	45
x	2	m

Table 2 / Jadual 2

- A 4
B 8
C 12
D 24
- 39 Given that $2\begin{pmatrix} p \\ -q \end{pmatrix} + p\begin{pmatrix} 1 \\ -2 \end{pmatrix} = \begin{pmatrix} 6 \\ 2 \end{pmatrix}$. Find the value of p and of q .

Diberi $2\begin{pmatrix} p \\ -q \end{pmatrix} + p\begin{pmatrix} 1 \\ -2 \end{pmatrix} = \begin{pmatrix} 6 \\ 2 \end{pmatrix}$. Cari nilai p dan nilai q .

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

END OF QUESTION PAPER
KERTAS SOALAN TAMAT

$$\begin{array}{l} \text{D} \\ \text{C} \\ \text{B} \\ \text{A} \end{array} \begin{pmatrix} 3 \\ 5 \\ 9 \\ 10 \end{pmatrix} \begin{pmatrix} -3 \\ 0 \\ 0 \\ 20 \end{pmatrix} \begin{pmatrix} -3 \\ 10 \\ -9 \\ 20 \end{pmatrix} \begin{pmatrix} -6 \\ 20 \\ -18 \\ 40 \end{pmatrix}$$

40 If $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} = M$, then $M =$

Jika $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix} = M$, maka $M =$

HALAMAN KOSONG

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HALAMAN KOSONG

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.