

Name : .....

Form : 5 .....

**SEKOLAH MENENGAH KEBANGSAAN RAWANG**  
**SPM TRIAL EXAMINATION 2009**

---

**MATHEMATICS**

**PAPER 1**

**( 1 hour 15 min )**

---

**Information**

1. This paper consists of 40 questions.
2. Answer all questions by blackening the correct space on the answer sheet.
3. Blacken only one space for each question.
4. A list of formulae is provided.
5. You may use a non-programmable scientific calculator.

Prepared by :



( ZARINA BT. ARIFFIN )

Math. Teacher

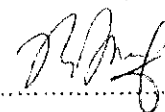
Checked by :



( NORAIDAH NORDIN )

Head of Math. Panel

Verified by :



( HJH. NORSEHA BT. MANAF )

Head of Math. & Sc. Dept .

Dapatkan skema Jawapan di Laman

[www.banksoalanspm.com](http://www.banksoalanspm.com)

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.

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

$$\frac{\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}}$$

6 Midpoint / Titik tengah

$$\left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$$

7 Average speed =

time taken

8 Average speed =

jarak yang dilalui

masa yang diambil

sum of data

number of data

9 Mean =

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

10 Mean =hasil tambah (nilai titik tengah kelas  $\times$  kekerapan)

hasil tambah kekerapan

SHAPES AND SPACE  
BENTUK DAN RUANG

1 Area of trapezium =  $\frac{1}{2} \times$  sum of parallel sides  $\times$  heightLuas trapezium =  $\frac{1}{2} \times$  hasil tambah sisi selari  $\times$  tinggi2 Circumference of circle =  $\pi d = 2\pi r$ Lilitan bulatan =  $\pi d = 2\pi r$ 3 Area of circle =  $\pi r^2$ Luas bulatan =  $\pi r^2$ 4 Curved surface area of cylinder =  $2\pi rh$ Luas permukaan melengkung silinder =  $2\pi rh$ 5 Surface area of sphere =  $4\pi r^2$ Luas permukaan sfera =  $4\pi r^2$ 6 Volume of right prism = cross sectional area  $\times$  lengthIsi padu prisma tegak = luas keratan rentas  $\times$  panjang7 Volume of cylinder =  $\pi r^2 h$ Isi padu silinder =  $\pi r^2 h$ 8 Volume of cone =  $\frac{1}{3} \pi r^2 h$ Isi padu kon =  $\frac{1}{3} \pi r^2 h$ 9 Volume of sphere =  $\frac{4}{3} \pi r^3$ Isi padu sfera =  $\frac{4}{3} \pi r^3$ 10 Volume of right pyramid =  $\frac{1}{3} \times$  base area  $\times$  heightIsi padu piramid tegak =  $\frac{1}{3} \times$  luas tapak  $\times$  tinggi

11 Sum of interior angles of a polygon

Hasil tambah sudut pedalaman poligon

=  $(n - 2) \times 180^\circ$

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

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

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

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

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

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

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

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

BLANK PAGE  
HALAMAN KOSONG

Dapatkan skema Jawapan di Laman

[www.banksoalanspm.com](http://www.banksoalanspm.com)

- 1 Round off 8 157 correct to three significant figures.  
*Bundarkan 8 157 betul kepada tiga angka bererti.*
- A 815
  - B 816
  - C 8 150
  - D 8 160
- 2 State  $4.06 \times 10^4$  as a single number.  
*Nyatakan  $4.06 \times 10^4$  sebagai satu nombor tunggal.*
- A 4 060
  - B 40 600
  - C 406 000
  - D 4 060 000
- 3  $6.1 \times 10^5 - 1.2 \times 10^4 =$
- A  $4.90 \times 10^4$
  - B  $5.98 \times 10^4$
  - C  $4.90 \times 10^5$
  - D  $5.98 \times 10^5$

- 4 Diagram 1 shows a rectangle representing an agricultural zone and a square representing an industrial zone.

*Rajah 1 menunjukkan satu segiempat tepat yang mewakili zon pertanian dan satu segiempat sama yang mewakili zon perindustrian.*

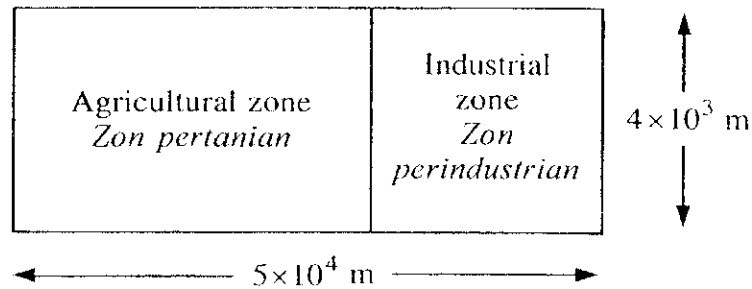


Diagram 1  
Rajah 1

Calculate the area, in  $\text{m}^2$ , of the agricultural zone.

*Hitung luas, dalam  $\text{m}^2$ , zon pertanian itu.*

- A  $1.84 \times 10^8$   
 B  $1.84 \times 10^7$   
 C  $4 \times 10^7$   
 D  $4 \times 10^6$
- 5 Convert  $324_8$  to a number in base two.  
*Tukar  $324_8$  kepada nombor dalam asas dua.*
- A  $100001011_2$   
 B  $100010011_2$   
 C  $11001100_2$   
 D  $11010100_2$
- 6  $10100_2 - 1111_2 =$
- A  $101_2$   
 B  $111_2$   
 C  $1001_2$   
 D  $1011_2$

- 7 In Diagram 2,  $PQRST$  is a regular polygon.  $PUT$  is a straight line.  $VP = VU$ .  
 Dalam Rajah 2,  $PQRST$  ialah poligon sekata.  $PUT$  ialah garis lurus.  $VP = VU$ .

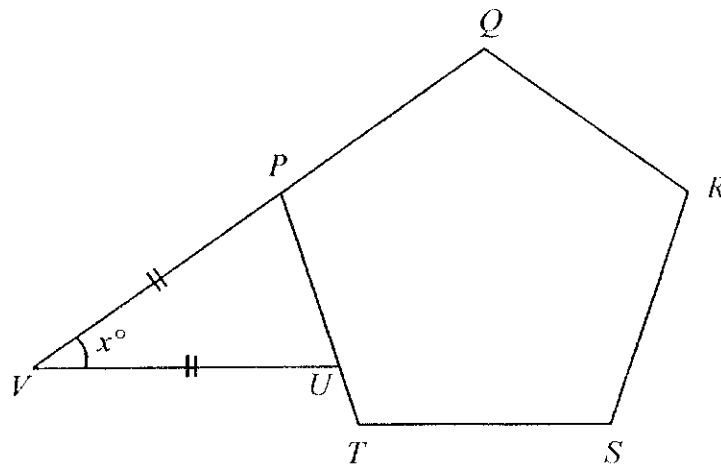


Diagram 2  
Rajah 2

Find the value of  $x$ .

Cari nilai  $x$ .

- A 36
- B 54
- C 60
- D 72

- 8 In Diagram 3,  $PQRTX$  is a pentagon which is symmetrical about the straight line  $QWV$ .  $RTV$  is a straight line.  $SRVU$  is part of a regular hexagon.

Dalam Rajah 3,  $PQRTX$  ialah sebuah pentagon yang bersimetri pada garis lurus  $QWV$ .  $RTV$  ialah garis lurus.  $SRVU$  ialah sebahagian daripada sebuah heksagon sekata.

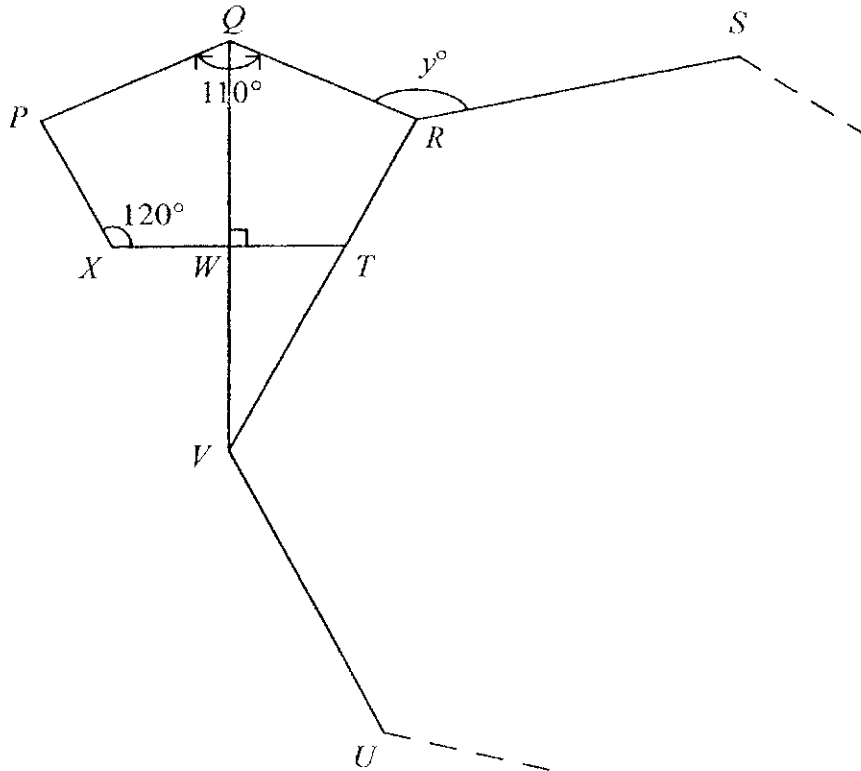


Diagram 3  
Rajah 3

Find the value of  $y$ .

Cari nilai  $y$ .

- A 130
- B 132
- C 144
- D 145

- 9 In Diagram 4,  $URT$  is the tangent to the circle  $PQRS$  at point  $R$ .  $PQR$  is an equilateral triangle and  $\angle URS = 20^\circ$ .

Dalam Rajah 4,  $URT$  ialah tangen kepada bulatan  $PQRS$  di titik  $R$ .  $PQR$  ialah segitiga sama sisi dan  $\angle URS = 20^\circ$ .

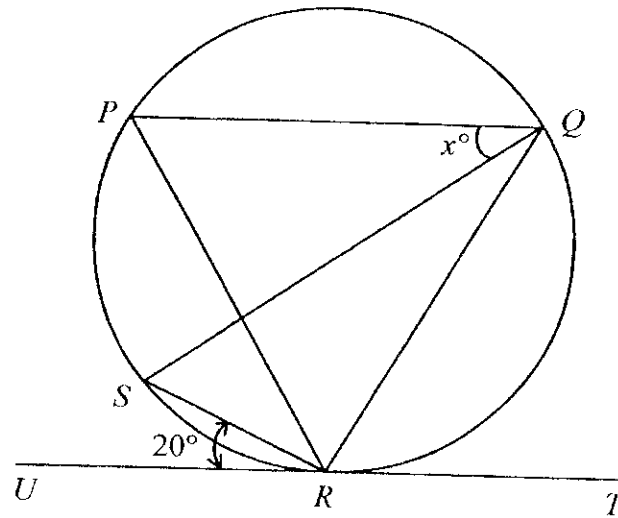


Diagram 4  
Rajah 4

Find the value of  $x$ .

Cari nilai  $x$ .

- A 30
- B 35
- C 40
- D 45



10 In Diagram 5,  $O$  is the centre of a circle.  $TQU$  is the tangent to the circle at point  $Q$ .  $PSR$  is a straight line and  $\angle OPS = 10^\circ$ .

Dalam Rajah 5,  $O$  ialah pusat bulatan.  $TQU$  ialah tangen kepada bulatan di titik  $Q$ .  $PSR$  ialah garis lurus dan  $\angle OPS = 10^\circ$ .

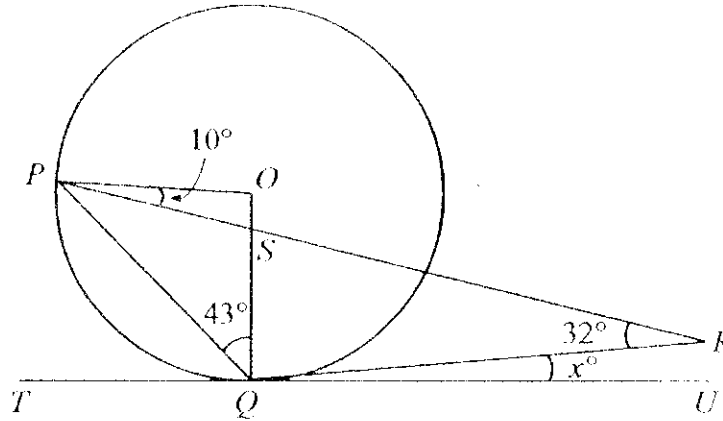


Diagram 5  
Rajah 5

Find the value of  $x$ .

Cari nilai  $x$ .

- A 18
- B 22
- C 28
- D 33

- 11 Diagram 6 shows two polygons,  $PQRST$  and  $UVWXY$ , drawn on square grids.  $UVWXY$  is the image of  $PQRST$  under an enlargement.

Rajah 6 menunjukkan dua poligon,  $PQRST$  dan  $UVWXY$ , yang dilukis pada grid segiempat sama.  $UVWXY$  ialah imej bagi  $PQRST$  di bawah suatu pembesaran.

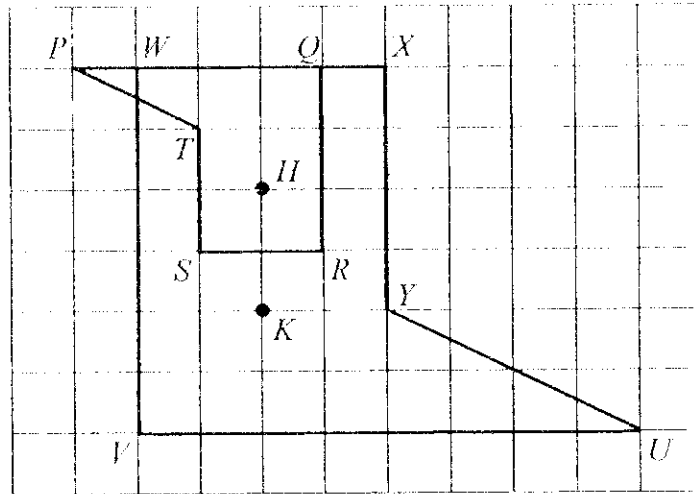


Diagram 6  
Rajah 6

What is the centre and the scale factor of the enlargement?

Apakah pusat dan faktor skala bagi pembesaran itu?

	Centre of enlargement <i>Pusat pembesaran</i>	Scale factor <i>Faktor skala</i>
A	$H$	2
B	$H$	-2
C	$K$	2
D	$K$	2

- 12 In Diagram 7,  $RTU$  is a right-angled triangle.  $RST$  and  $TUV$  are straight lines.  
 Dalam Rajah 7,  $RTU$  ialah segitiga bersudut tegak.  $RST$  dan  $TUV$  ialah garis lurus.

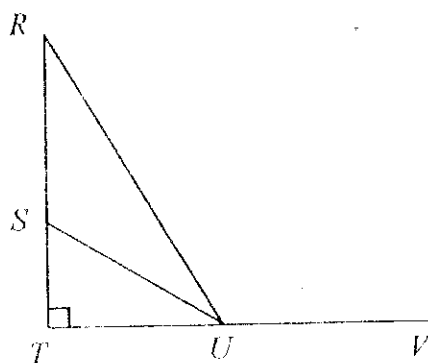


Diagram 7  
Rajah 7

It is given that  $RS = 28$  cm,  $TU = 15$  cm and  $\tan \angle RUV = \frac{12}{5}$ .

Find the length, in cm, of  $SU$ .

Diberi bahawa  $RS = 28$  cm,  $TU = 15$  cm dan  $\tan \angle RUV = \frac{12}{5}$ .

Cari panjang, dalam cm, bagi  $SU$ .

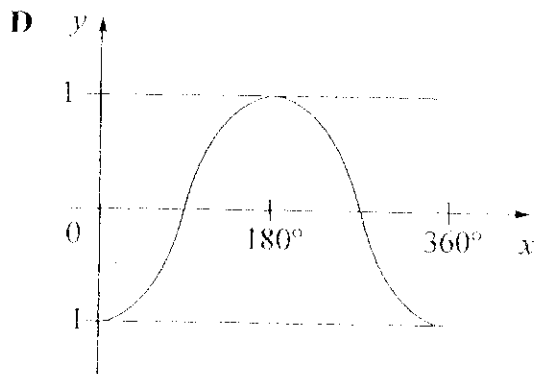
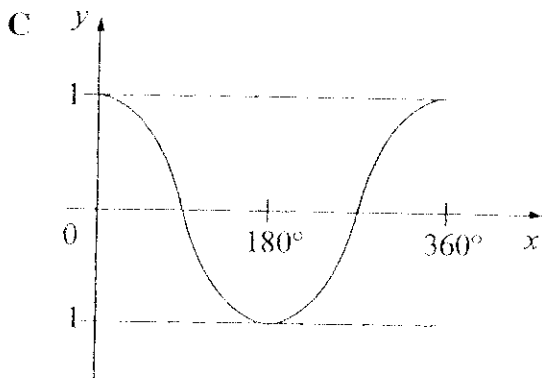
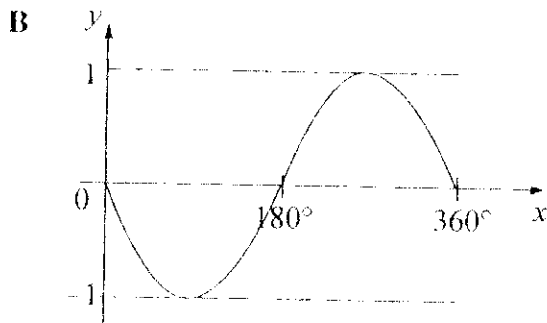
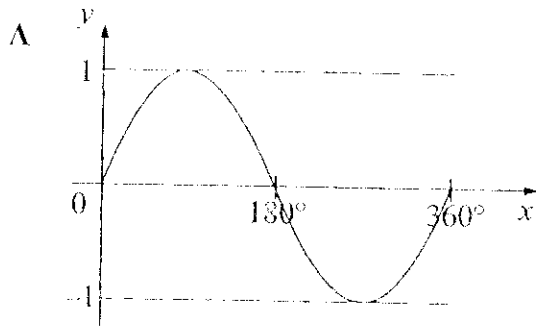
- 13 Given that  $\sin x = -\frac{1}{\sqrt{2}}$ ,  $90^\circ \leq x \leq 270^\circ$ , find the value of  $3 \cos x$ .

Diberi bahawa  $\sin x = -\frac{1}{\sqrt{2}}$ ,  $90^\circ \leq x < 270^\circ$ , cari nilai bagi  $3 \cos x$ .

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

14 Which graph represents  $y = \cos x^\circ$  for  $0^\circ \leq x \leq 360^\circ$ ?

Graf manakah yang mewakili  $y = \cos x^\circ$  bagi  $0^\circ \leq x \leq 360^\circ$ ?



15 Diagram 8 shows a cuboid with a horizontal base  $TUVW$ .

Rajah 8 menunjukkan sebuah kuboid dengan tapak mengufuk  $TUVW$ .

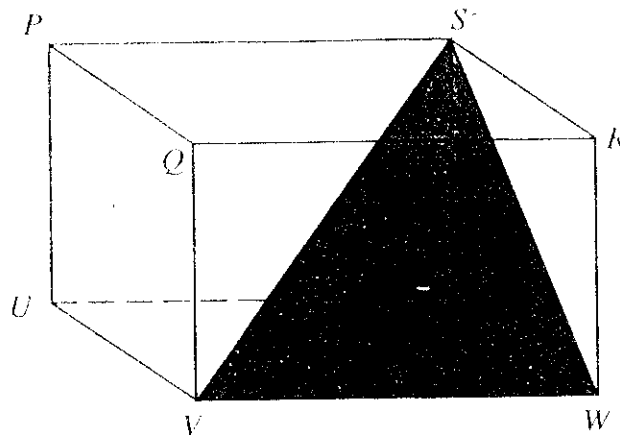


Diagram 8  
Rajah 8

What is the angle between the plane  $SVW$  and the plane  $PQRS$ ?

Apakah sudut di antara satah  $SVW$  dengan satah  $PQRS$ ?

- A  $\angle QSW$
- B  $\angle RSW$
- C  $\angle QSV$
- D  $\angle PSV$

- 16 In Diagram 9,  $Q$  and  $S$  are two points on a horizontal plane.  $R$  is the top of a vertical flagpole  $SR$ .

*Dalam Rajah 9,  $Q$  dan  $S$  adalah dua titik pada suatu satah mengufuk.  $R$  ialah puncak tiang bendera tegak  $SR$ .*

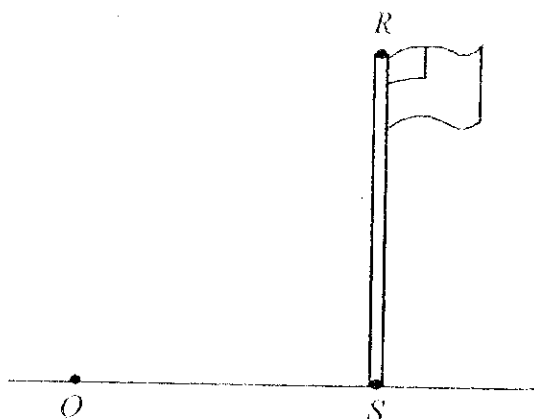


Diagram 9  
Rajah 9

The angle of elevation of  $R$  from  $Q$  is  $52^\circ$ . The distance between  $Q$  and  $S$  is 14 m. Calculate the height, in m, of flagpole  $SR$ .

*Sudut dongakan  $R$  dari  $Q$  ialah  $52^\circ$ . Jarak antara  $Q$  dan  $S$  ialah 14 m.*

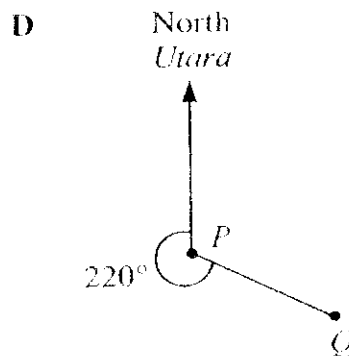
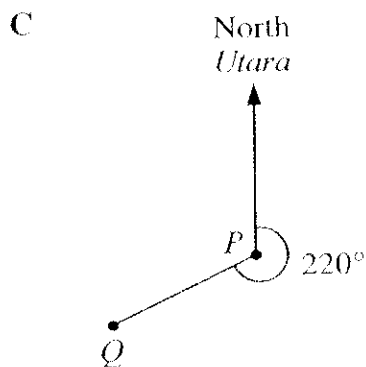
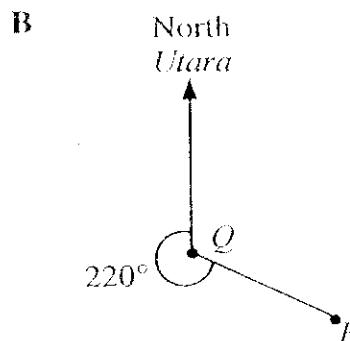
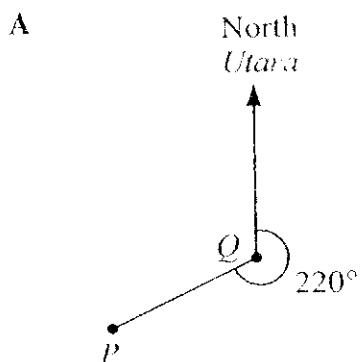
*Hitung tinggi, dalam m, tiang bendera  $SR$ .*

- A 10.94
- B 11.03
- C 15.59
- D 17.92

- 17 Point  $P$  and point  $Q$  lie on a horizontal plane. The bearing of  $P$  from  $Q$  is  $220^\circ$ . Which diagram shows the locations of  $P$  and  $Q$ ?

*Titik  $P$  dan titik  $Q$  terletak pada suatu satah mengufuk. Bearing  $P$  dari  $Q$  ialah  $220^\circ$ .*

*Rajah manakah yang menunjukkan kedudukan  $P$  dan  $Q$ ?*



- 18  $P$  and  $Q$  are two points on the surface of the earth and the latitude of  $P$  is  $55^\circ N$ . Given that  $Q$  is located  $15^\circ$  south of  $P$ , find the latitude of  $Q$ .

*$P$  dan  $Q$  ialah dua titik pada permukaan bumi dan latitud  $P$  ialah  $55^\circ U$ .*

*Diberi bahawa  $Q$  terletak  $15^\circ$  ke selatan  $P$ , cari latitud  $Q$ .*

- A  $40^\circ S$
- B  $40^\circ N$   
 $40^\circ U$
- C  $70^\circ S$
- D  $70^\circ N$   
 $70^\circ U$
- 19 Express  $\frac{p-3}{p^2} - \frac{p+2}{2p}$  as a single fraction in its simplest form.

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

- A  $\frac{-p^2-3}{p^2}$
- B  $\frac{-p^2-6}{2p^2}$
- C  $\frac{-p^2+2p-3}{p^2}$
- D  $\frac{-p^2+4p-6}{2p^2}$



20 Given that  $k - (m + 2) = 3m$ , express  $m$  in terms of  $k$ .

Diberi  $k - (m + 2) = 3m$ , ungkapkan  $m$  dalam sebutan  $k$ .

A  $m = \frac{k-2}{2}$

B  $m = \frac{k+2}{2}$

C  $m = \frac{k-2}{4}$

D  $m = \frac{k+2}{4}$

21 Given that  $\frac{1}{5}(3n+2) = n-2$ , calculate the value of  $n$ .

Diberi bahawa  $\frac{1}{5}(3n+2) = n-2$ , hitung nilai  $n$ .

A 6

B 2

C -2

D -6

22 Simplify:

Ringkaskan:

$$\left( pn^{\frac{1}{3}} \right)^6 \times n^2 \div (pn^{-1})$$

A  $n^3$

B  $n^5$

C  $p^5n^3$

D  $p^5n^5$

- 23 List all the integers  $x$  which satisfy the inequality  $2 < x+1 < 6$ .

*Senaraikan semua integer  $x$  yang memuaskan ketaksamaan  $2 < x+1 < 6$ .*

- A 3, 4
- B 2, 3, 4
- C 2, 3, 4, 5
- D 1, 2, 3, 4, 5

- 24 Which of the following inequalities satisfy the simultaneous linear inequalities

$$4p-3 \leq p \text{ and } p+2 \geq \frac{1}{2}p?$$

*Antara ketaksamaan berikut, yang manakah memuaskan ketaksamaan linear serentak  $4p-3 \leq p$  dan  $p+2 \geq \frac{1}{2}p$ ?*

- A  $-4 \leq p \leq 1$
- B  $-1 \leq p \leq 4$
- C  $p \leq -1$  and  $p \geq 1$   
 *$p \leq -1$  dan  $p \geq 1$*
- D  $p < -1$  and  $p \geq 4$   
 *$p \leq -1$  dan  $p > 4$*

23. Diagram 10 is a pie chart which shows the types of drink commonly ordered by the customers in a cafe.

*Rajah 10 ialah carta pai yang menunjukkan jenis minuman yang biasa dipesan oleh pelanggan sebuah kafe.*

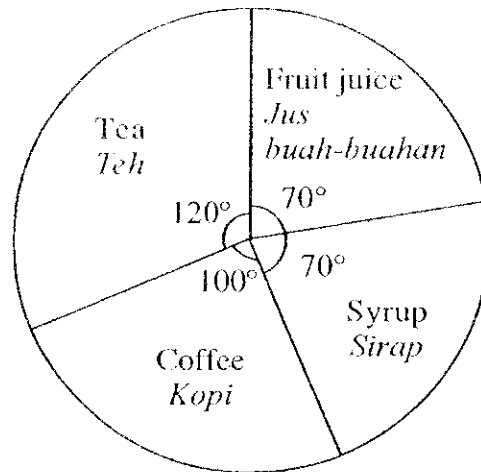


Diagram 10  
*Rajah 10*

Determine the mode of the types of drink.

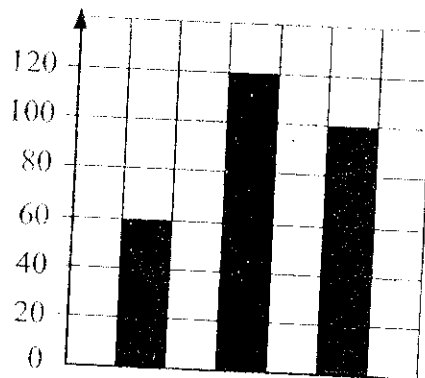
*Tentukan mod bagi jenis minuman itu.*

- A Fruit juice  
*Jus buah-buahan*
- B Coffee  
*Kopi*
- C Syrup  
*Sirap*
- D Tea  
*Teh*

- 26 Diagram 11 is a bar chart showing the total sales of washing machines for a company in June. The company has a total of 400 washing machines of brands, K, L and M in stock at the beginning of June.

Rajah 11 ialah sebuah carta palang yang menunjukkan jumlah jualan mesin basuh bagi sebuah syarikat dalam bulan Jun. Syarikat itu mempunyai sejumlah 400 buah mesin basuh jenama, K, L dan M dalam stok pada awal bulan Jun.

Number of washing machines sold  
Bilangan mesin basuh dijual



Brand of washing machines  
Jenama mesin basuh

Diagram 11  
Rajah 11

Calculate the number of remaining washing machines that the company has in stock at the end of June.

Hitung bilangan baki mesin basuh dalam stok syarikat itu pada akhir bulan Jun.

- A 120
- B 220
- C 260
- D 340

27 Scores obtained by a group of students in a game are as follows:

*Skor yang diperoleh sekumpulan murid dalam satu permainan adalah seperti berikut:*

4, 5, 2, 3, 2, 1, 5, 2, 4, 8

Find the score median of the distribution.

*Cari skor median bagi taburan itu.*

- A 1.5
- B 2
- C 3
- D 3.5

28 Table 1 shows the distribution of the scores of 30 students in a quiz.

*Jadual 1 menunjukkan taburan skor bagi 30 orang murid dalam suatu kuiz.*

Score <i>Skor</i>	Number of students <i>Bilangan murid</i>
0 – 9	3
10 – 19	5
20 – 29	11
30 – 39	6
40 – 49	5

Table 1  
*Jadual 1*

Find the mean score.

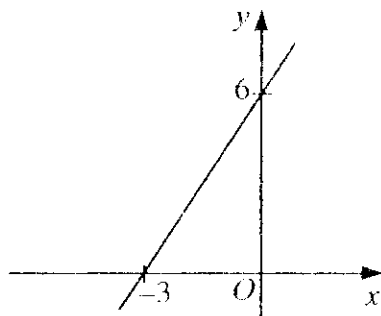
*Cari min skor.*

- A 21.67
- B 25.67
- C 26.17
- D 26.67

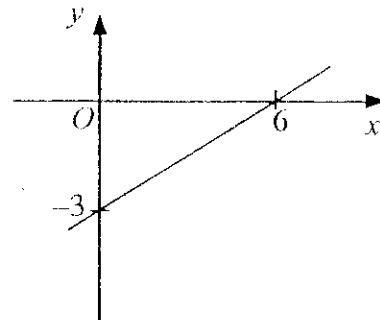
29 Which graph represents  $y = \frac{1}{2}x - 3$ ?

Graf manakah yang mewakili  $y = \frac{1}{2}x - 3$ ?

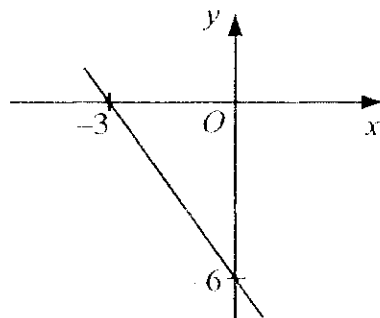
A



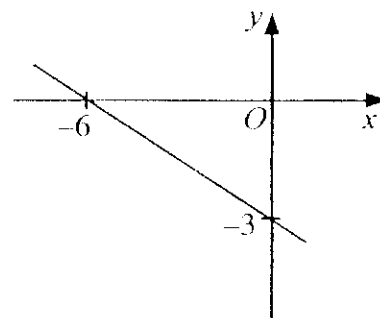
B



C



D



30 Diagram 12 shows a Venn diagram with the universal set,  $\xi$ , set  $T$  and set  $S$ .

Rajah 12 menunjukkan gambar rajah Venn dengan set semesta,  $\xi$ , set  $T$  dan set  $S$ .

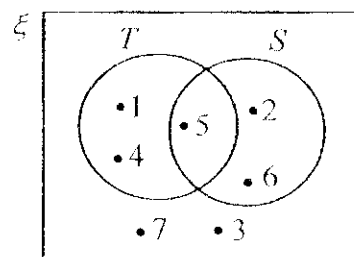


Diagram 12  
Rajah 12

List all the elements of set  $S'$ .

Senaraikan semua unsur set  $S'$ .

- A {1, 4}
- B {3, 7}
- C {1, 4, 5}
- D {1, 3, 4, 7}

- 31 Diagram 13 shows a Venn diagram with universal set,  $\xi = \{\text{Form Five Students}\}$ , set  $P = \{\text{Members of Science Society}\}$ , set  $Q = \{\text{Members of Mathematics Society}\}$  and set  $R = \{\text{Members of Geography Society}\}$ .

Rajah 13 menunjukkan gambar rajah Venn dengan set semesta,  $\xi = \{\text{Murid Tingkatan Lima}\}$ , set  $P = \{\text{Ahli Persatuan Sains}\}$ , set  $Q = \{\text{Ahli Persatuan Matematik}\}$  dan set  $R = \{\text{Ahli Persatuan Geografi}\}$ .

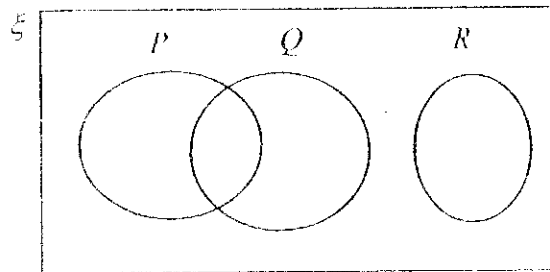


Diagram 13  
Rajah 13

It is given that  $n(P) = 82$ ,  $n(Q) = 90$ ,  $n(R) = 40$  and  $n(P \cap Q) = 24$ . The number of Form Five students who are not a member of any of the three societies is 35.

Find the total number of Form Five students.

Diberi bahawa  $n(P) = 82$ ,  $n(Q) = 90$ ,  $n(R) = 40$  dan  $n(P \cap Q) = 24$ . Bilangan murid Tingkatan Lima yang bukan ahli mana-mana tiga persatuan itu ialah 35.

Cari jumlah bilangan murid Tingkatan Lima.

- A 271
- B 236
- C 223
- D 188

- 32 Diagram 14 is a Venn diagram showing the number of elements in sets  $P$ ,  $Q$  and  $R$ .  
*Rajah 14 ialah gambar rajah Venn yang menunjukkan bilangan unsur dalam set  $P$ , set  $Q$  dan set  $R$ .*

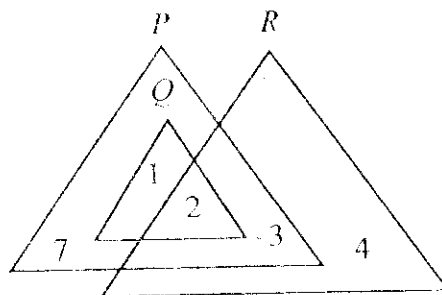


Diagram 14  
*Rajah 14*

It is given that the universal set,  $\xi = P \cup Q \cup R$ .

Find  $n(P \cap (Q \cup R))$ .

*Diberi bahawa set semesta,  $\xi = P \cup Q \cup R$ .*

*Cari  $n(P \cap (Q \cup R))$ .*

- A 5
- B 6
- C 10
- D 17



33 Diagram 15 shows a straight line,  $KL$ , on a Cartesian plane.

Rajah 15 menunjukkan satu garis lurus,  $KL$ , pada suatu satah Cartesian.

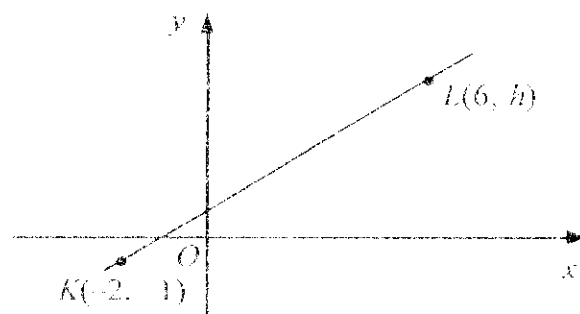


Diagram 15  
Rajah 15

The gradient of  $KL$  is  $\frac{3}{2}$ .

Find the value of  $h$ .

Kecerunan  $KL$  ialah  $\frac{3}{2}$ .

Cari nilai  $h$ .

A  $\frac{11}{3}$

B  $\frac{13}{3}$

C 7

D 11

34 Find the  $y$ -intercept of the straight line  $5y = 3x - 6$ .

Cari pintasan- $y$  bagi garis lurus,  $5y = 3x - 6$ .

A -6

B  $-\frac{6}{5}$

C  $\frac{3}{5}$

D 3

35 Form Five Bestari had 40 students. When a student was chosen at random from this class, the probability of choosing a girl was  $\frac{3}{4}$ .

A group of 4 girls is transferred to another class and replaced by 7 boys. A student is then chosen at random from this class.

Calculate the probability of choosing a boy from this class.

*Tingkatan Lima Bestari mempunyai 40 orang murid. Apabila seorang murid dipilih secara rawak daripada kelas ini, kebarangkalian memilih seorang murid perempuan ialah  $\frac{3}{4}$ .*

*Sekumpulan 4 orang murid perempuan ditukarkan ke kelas lain dan diganti oleh 7 orang murid lelaki. Seorang murid kemudian dipilih secara rawak daripada kelas ini.*

*Hitung kebarangkalian memilih seorang murid lelaki daripada kelas ini.*

A  $\frac{17}{47}$

B  $\frac{10}{47}$

C  $\frac{17}{43}$

D  $\frac{10}{43}$

- 36 Table 2 shows the number of students in the Science stream and the Arts stream in a school.

*Jadual 2 menunjukkan bilangan murid dalam aliran Sains dan aliran Sastera di sebuah sekolah.*

Stream <i>Aliran</i>	Science <i>Sains</i>	Arts <i>Sastera</i>
Number of students <i>Bilangan murid</i>	55	65

Table 2  
*Jadual 2*

A group of  $k$  students is transferred from the Arts stream to the Science stream. A student is chosen at random from the group. The probability of choosing a student from the Science stream is  $\frac{3}{5}$ .

Calculate the value of  $k$ .

*Sekumpulan  $k$  orang murid telah ditukarkan dari aliran Sastera ke aliran Sains. Seorang murid dipilih secara rawak daripada kumpulan itu. Kebarangkalian memilih seorang murid daripada aliran Sains ialah  $\frac{3}{5}$ .*

*Hitung nilai  $k$ .*

- A 17
- B 26
- C 33
- D 72

- 37 It is given that  $p$  varies directly as the square root of  $w$  and that  $p = 5$  when  $w = 4$ .

Express  $p$  in terms of  $w$ .

*Diberi bahawa  $p$  berubah secara langsung dengan punca kuasa dua  $w$  dan  $p = 5$  apabila  $w = 4$ .*

*Ungkapkan  $p$  dalam sebutan  $w$ .*

A  $p = \frac{5}{16}w^2$

B  $p = \frac{80}{w^2}$

C  $p = \frac{5}{2}\sqrt{w}$

D  $p = \frac{10}{\sqrt{w}}$

- 38 Table 3 shows some values of the variables  $m$  and  $n$ , such that  $m$  varies inversely as the cube of  $n$ .

*Jadual 3 menunjukkan beberapa nilai pembolehubah  $m$  dan  $n$ , dengan keadaan  $m$  berubah secara songsang dengan kuasa tiga  $n$ .*

$m$	$\frac{1}{2}$	$x$
$n$	2	3

Table 3  
Jadual 3

Calculate the value of  $x$ .

*Hitung nilai bagi  $x$ .*

A  $\frac{4}{27}$

B  $\frac{4}{9}$

C  $\frac{9}{16}$

D  $\frac{27}{16}$

$$39 \quad \begin{pmatrix} 5 & -3 \\ 8 & 1 \end{pmatrix} + \frac{1}{2} \begin{pmatrix} -6 & 2 \\ 4 & 10 \end{pmatrix} - \begin{pmatrix} 1 & 3 \\ 2 & -1 \end{pmatrix} =$$

$$A \quad \begin{pmatrix} 0 & 2 \\ 14 & 10 \end{pmatrix}$$

$$B \quad \begin{pmatrix} 1 & -5 \\ 8 & 7 \end{pmatrix}$$

$$C \quad \begin{pmatrix} -2 & -4 \\ 10 & 12 \end{pmatrix}$$

$$D \quad \begin{pmatrix} 3 & 1 \\ 12 & 5 \end{pmatrix}$$

$$40 \quad \text{Given that } \begin{pmatrix} 1 & 4 \\ 2 & x \end{pmatrix} \begin{pmatrix} 3 \\ -2 \end{pmatrix} = \begin{pmatrix} -5 \\ 0 \end{pmatrix}, \text{ find the value of } x.$$

$$\text{Diberi bahawa } \begin{pmatrix} 1 & 4 \\ 2 & x \end{pmatrix} \begin{pmatrix} 3 \\ -2 \end{pmatrix} = \begin{pmatrix} -5 \\ 0 \end{pmatrix}, \text{ cari nilai } x.$$

$$A \quad -3$$

$$B \quad -1$$

$$C \quad 1$$

$$D \quad 3$$

END OF QUESTION PAPER  
KERTAS SOALAN TAMAT