

**1449/1**  
**MATHEMATICS**  
**Kertas 1**  
**Masa:**  
**1¼ jam**

**PEPERIKSAAN PERCUBAAN SPM 2009**

**MATHEMATICS P1**  
**Satu jam lima belas minit**

**JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU**

*Kertas soalan ini adalah dalam dwibahasa. Soalan dalam bahasa Inggeris mendahului soalan yang sepadan dalam bahasa Melayu.*

**INFORMATION FOR CANDIDATES**  
**MAKLUMAT UNTUK CALON**

1. This question paper consists of 40 questions.  
*Kertas ini mengandungi 40 soalan*
2. Answer **all** questions.  
Jawab semua soalan
3. Answer each question by blackening the correct space on the objective answer sheet.  
*Jawab setiap soalan dengan menghitamkan ruangan yang betul pada kertas jawapan objektif*
4. Blacken only **one** space for each question  
Hitamkan **satu** ruangan sahaja bagi setiap soalan.
5. If you wish to change your answer, erase the blackened mark that you have done. Then blacken the space for the new answer.  
*Sekiranya anda hendak menukar 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 dilukis mengikut skala kecuali dinyatakan.*
7. A list of formulae is provided on page 2 to 4  
*Satu senarai rumus disediakan di halaman 2 hingga 4.*
8. You may use a non-programmable scientific calculator.  
*Anda dibenarkan menggunakan kalkulator saintifik yang tidak boleh diprogramkan*

@PKPSM Pahang

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.*

**RELATIONS**  
**PERKAITAN**

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

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

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

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

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

Dapatkan skema Jawapan di Laman

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

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

**SHAPES AND SPACE**  
**BENTUK DAN RUANG**

$$1 \quad \text{Area of trapezium} = \frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$$

$$\text{Luas trapezium} = \frac{1}{2} \times \text{hasil tambah dua sisi selari} \times \text{tinggi}$$

$$2 \quad \text{Circumference of circle} = \pi d = 2 \pi r$$

$$\text{Lilitan bulatan} = \pi d = 2 \pi j$$

$$3 \quad \text{Area of circle} = \pi r^2$$

$$\text{Luas bulatan} = \pi j^2$$

$$4 \quad \text{Curved surface area of cylinder} = 2 \pi rh$$

$$\text{Luas permukaan melengkung silinder} = 2 \pi jt$$

$$5 \quad \text{Surface area of sphere} = 4 \pi r^2$$

$$\text{Luas permukaan sfera} = 4 \pi j^2$$

$$6 \quad \text{Volume of right prism} = \text{cross sectional area} \times \text{length}$$

$$\text{Isipadu prisma tegak} = \text{luas keratan rentas} \times \text{panjang}$$

$$7 \quad \text{Volume of cylinder} = \pi r^2 h$$

$$\text{Isipadu kon} = \frac{1}{3} \pi j^2 t$$

$$8 \quad \text{Volume of cone} = \frac{1}{3} \pi r^2 h$$

$$\text{Isipadu silinder} = \pi j^2 t$$

$$9 \quad \text{Volume of sphere} = \frac{4}{3} \pi r^3$$

$$\text{Isipadu sfera} = \frac{4}{3} \pi j^3$$

$$10 \quad \text{Volume of right pyramid} = \frac{1}{3} \times \text{base area} \times \text{height}$$

$$\text{Isipadu pyramid tegak} = \frac{1}{3} \times \text{luas tapak} \times \text{tinggi}$$

Dapatkan skema Jawapan di Laman

11 Sum of interior angles of a polygon

$$\begin{aligned} & \text{Hasil tambah sudut pedalaman poligon} \\ & = (n - 2) \times 180^\circ \end{aligned}$$

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

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

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

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

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

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

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

1. Round off 0.0575 correct to two significant figures.  
*Bundarkan 0.0575 betul kepada dua angka bererti.*
- A. 0.05  
B. 0.06  
C. 0.058  
D. 0.057
2.  $5.4 \times 10^8 + 2.9 \times 10^9 =$
- A  $3.44 \times 10^8$   
B  $3.44 \times 10^9$   
C  $8.3 \times 10^9$   
D  $8.3 \times 10^8$
3.  $\frac{42\,000}{7 \times 10^{-6}} =$
- A  $6 \times 10^9$   
B  $6 \times 10^{10}$   
C  $6 \times 10^{-9}$   
D  $6 \times 10^{-10}$
4. The area of a rectangular nursery plot is  $1.28 \text{ km}^2$ . Its width is 320 m.  
The length, in m, of the nursery plot is  
*Luas tapak semaian yang berbentuk segiempat tepat ialah  $1.28 \text{ km}^2$ .  
Lebar tapak semaian itu ialah 320 m. Panjang, dalam m, tapak semaian itu*
- A  $4 \times 10^2$   
B  $4 \times 10^3$   
C  $6.4 \times 10^3$   
D  $6.4 \times 10^4$
5. Express  $6(8^4) + 5(8^3) + 8$  as a number in base eight.  
*Ungkapkan  $6(8^4) + 5(8^3) + 8$  sebagai nombor dalam asas lapan.*
- A.  $6510_8$   
B.  $65100_8$   
C.  $65010_8$   
D.  $43010_8$
6.  $11110_2 + 111_2 =$
- A  $100101_2$   
B  $110101_2$   
C  $101111_2$   
D  $111000_2$

7. Diagram 1 shows a square  $KLMN$  and an equilateral triangle  $KNT$ .  
*Rajah 1 menunjukkan segiempat sama  $KLMN$  dan segitiga sama sisi  $KNT$ .*

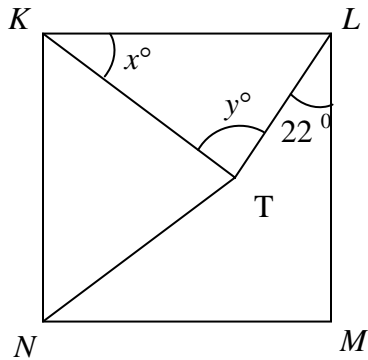


Diagram 1  
 Rajah 1

Find the value of  $y - x$   
*Cari nilai bagi  $y - x$ .*

- A 42  
 B 52  
 C 98  
 D 112
8. In diagram 2,  $KLM$  is a tangent to the circle with centre  $O$ , at  $L$ .  
*Dalam Rajah 2,  $KLM$  ialah tangen kepada bulatan berpusat  $O$  di  $L$ .*

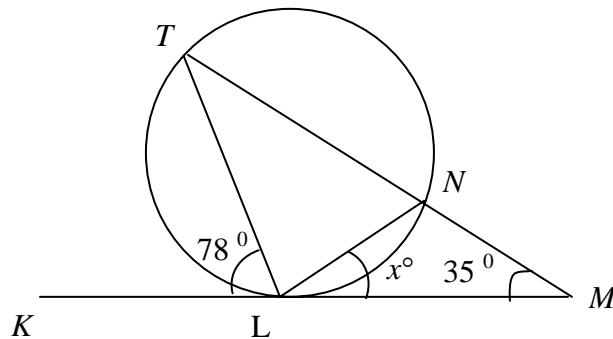


Diagram 2  
 Rajah 2

$TNM$  is a straight line, find the value of  $x$ .  
 *$TNM$  ialah garis lurus, cari nilai  $x$ .*

- A  $35^{\circ}$   
 B  $43^{\circ}$   
 C  $98^{\circ}$   
 D  $113^{\circ}$

9. The point  $(6, 7)$  is the image of the point  $(6, -3)$  under a reflection in the line  $y = k$ . Find the value of  $k$ .  
*Titik  $(6, 7)$  adalah imej kepada titik  $(6, -3)$  dibawah pantulan pada garis  $y = k$ .  
 Cari nilai  $k$ .*

- A 1  
 B 2  
 C 3  
 D 4

10.

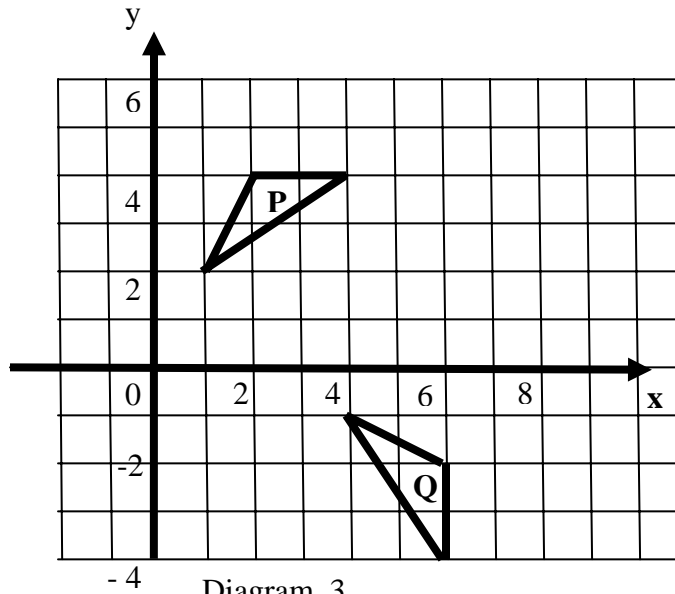


Diagram 3  
 Rajah 3

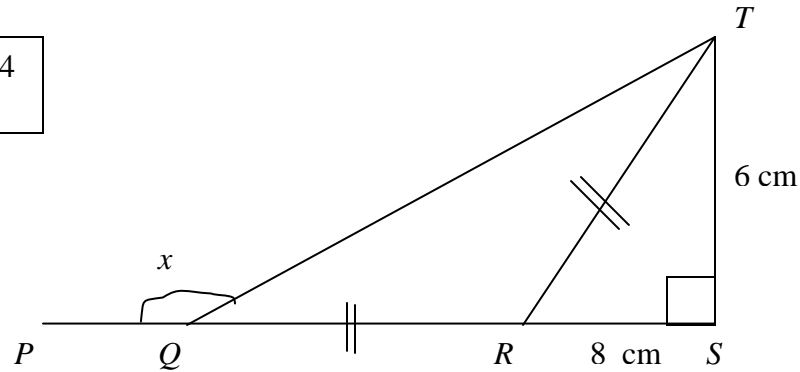
In diagram 3, Q is the image of P under a clockwise rotation  $90^\circ$ .  
 Find the coordinates of the centre of rotation.

*Dalam rajah 3, Q is imej kepada P dibawah putaran  $90^\circ$  ikut arah jam.  
 Cari koordinat bagi pusat putaran.*

- A  $(0, 0)$   
 B  $(0, -1)$   
 C  $(1, 0)$   
 D  $(1, -1)$

11. Diagram 4 shows a right-angled triangle QST.  
 PQRST is a straight line.  
*Rajah 4 menunjukkan sebuah segitiga bersudut tegak QST.*  
*PQRS ialah garis lurus.*

Diagram 4  
 Rajah 4



Given  $QR = RT$ , find the value of  $\tan x^\circ$ .  
 Diberi  $QR = RT$ , cari nilai  $\tan x^\circ$ .

- A  $\frac{3}{4}$                       B  $\frac{1}{2}$                       C  $-\frac{1}{3}$                       D  $-\frac{3}{5}$
12. Diagram 5 shows the graph of  $y = \cos x$ . Find the value of  $k$ .  
*Rajah 5 menunjukkan graf  $y = \cos x$ . Cari nilai  $k$ .*

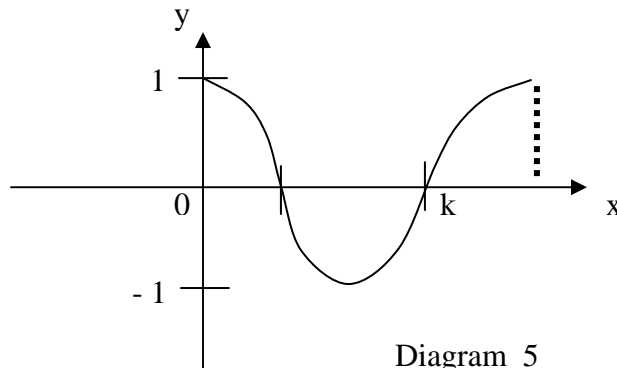


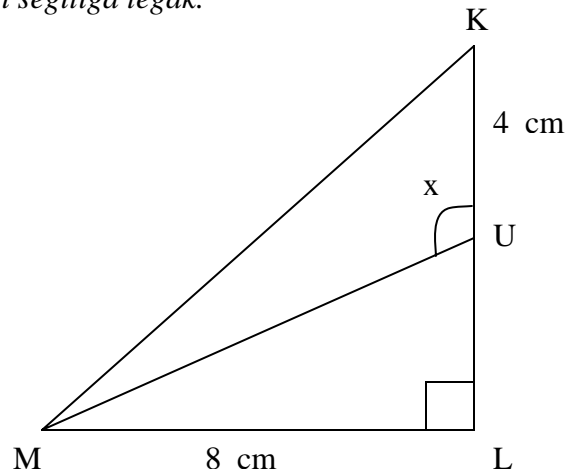
Diagram 5  
 Rajah 5

- A  $0^\circ$   
 B  $90^\circ$   
 C  $180^\circ$   
 D  $270^\circ$



13. In diagram 6, KLM is a right-angled triangle.  
 Dalam rajah 6, KLM ialah segitiga tegak.

Diagram 6  
 Rajah 6



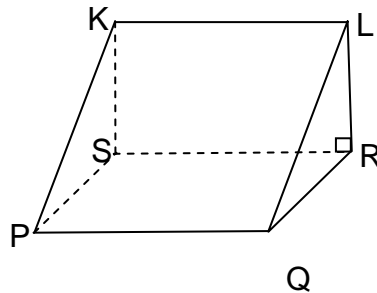
Given that KUL is a straight line and  $\tan \angle MKL = \frac{4}{5}$ , find the value of  $\cos x$ .

Diberi bahawa KUL ialah garis lurus dan  $\tan \angle MKL = \frac{4}{5}$ , cari nilai  $\cos x$ .

- A.  $-\frac{4}{3}$     B.  $-\frac{3}{5}$     C.  $-\frac{4}{5}$     D.  $-\frac{3}{4}$
14. Diagram 7 shows a right-angled triangular prism with the horizontal base PQRS.

Rajah 7 menunjukkan sebuah prisma segitiga tegak dengan tapak mengufuk PQRS.

Diagram 7  
 Rajah 7

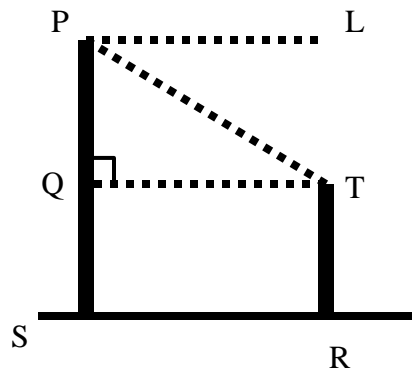


What is the angle between the line KQ and the base PQRS.  
 Apakah sudut di antara garis KQ dengan tapak PQRS.

- A.  $\angle KQP$   
 B.  $\angle KQS$   
 C.  $\angle KQR$   
 D.  $\angle KRQ$

15.

Diagram 8  
Rajah 8



In diagram 8,  $PQR$  and  $ST$  are two vertical poles on a horizontal plane. Name the angle of elevation of point  $P$  from point  $T$ .

Dalam rajah 8,  $PQR$  dan  $ST$  menunjukkan dua tiang tegak pada satah mengufuk. Namakan sudut dongak titik  $P$  dari titik  $T$ .

- A  $\angle TPL$
- B  $\angle RPT$
- C  $\angle RTP$
- D  $\angle QTP$

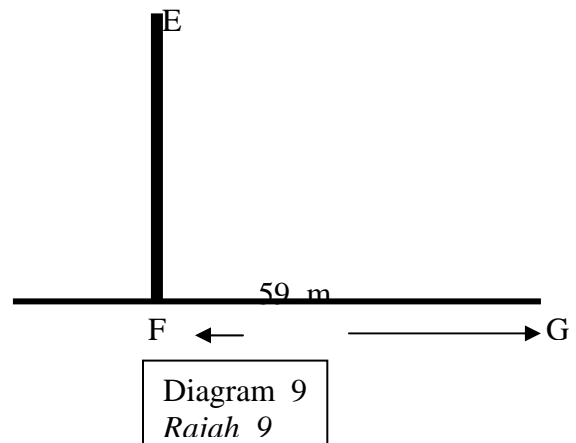
16. In diagram 9,  $EF$  is a vertical flag pole.  $FG$  is horizontal.

Dalam rajah 9,  $EF$  ialah sebatang tiang bendera tegak.  $FG$  adalah mengufuk.

The angle of elevation of  $E$  from  $G$  is  $32^\circ$ .  
The height, in  $m$ , of the flag pole is

Sudut dongakan  $E$  dari  $F$  ialah  $32^\circ$ .  
Tinggi, dalam  $m$ , tiang bendera itu ialah

- A 31.27
- B 36.87
- C 50.03
- D 94.42



17. In diagram 10, KOL is the diameter of the earth.  
State the position of L.

Dalam rajah 10, KOL ialah diameter bumi.  
Nyatakan kedudukan titik L.

- A ( 34° N, 71° W)
- B ( 34° N, 109° W)
- C ( 56° N, 109° W)
- D ( 56° N, 71° W)

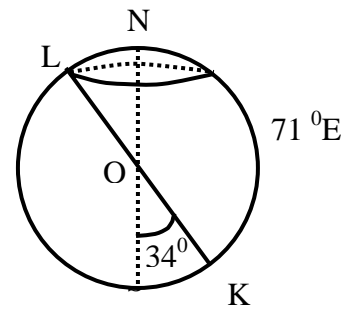


Diagram 10  
Rajah 10

18. E ( 40°N, 120° W) and F are two points on the earth`s surface. If F is 4500 nautical miles due south of E, find the latitude of F.

E (40°N, 120°W) dan F ialah dua titik di permukaan bumi. Jika F terletak 4500 batu nautika ke selatan E, cari latitud F .

- A 10° S
  - B 25° S
  - C 35° S
  - D 65° S
19. Diagram 11 shows three point P,Q and R on a horizontal plane.  
Q is lies to the north of R.  
Rajah 11 menunjukkan tiga titik P,Q dan R pada satah mengufuk.

It is given that Q is due north of R.  
Find the bearing of P from R.  
Diberi Q berada ke utara R.  
Cari bearing P dari R.

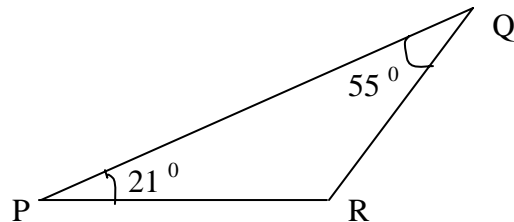


Diagram 11  
Rajah 11

- A 082°
- B 098°
- C 117°
- D 256°

20.  $(2x - 3)^2 - 4x(x - 4) =$

- A  $4x^2 + 4x + 9$   
 B  $8x^2 - 28x - 9$   
 C  $4x + 9$   
 D  $9 - 28x$

21. Given that  $4m - 8 = 15 - (3 + m)$ , then  $m =$   
*Diberi  $4m - 8 = 15 - (3 + m)$ , maka  $m =$*

- A. 4  
 B. 10  
 C. 18  
 D. 20

22. Express  $\frac{m+3}{3m} - \frac{n-m}{mn}$  as a single fraction in its simplest form.

*Ungkapkan sebagai  $\frac{m+3}{3m} - \frac{n-m}{mn}$  satu pecahan tunggal dalam bentuk termudah.*

- A  $\frac{n+3}{3n}$       B  $\frac{n-3}{3n}$       C  $\frac{n+3}{3mn}$       D  $\frac{3-n}{3mn}$

23. Given that  $\frac{5T - \sqrt{H}}{6} = 4$ , express H in terms of T.

*Diberi bahawa  $\frac{5T - \sqrt{H}}{6} = 4$ , unkapkan H dalam sebutan T.*

- A  $(5T - 24)^2$   
 B  $25T + 24$   
 C  $25T^2 - 24$   
 D  $\left(\frac{5}{6}T\right)^2 + 4$

24. Simplify:  
Ringkaskan:

$$\frac{(m^3 n^5)^2}{n^{10}}$$

- A  $m^6 n^{10}$   
 B  $m^5 n^{-3}$   
 C  $m^6 n$   
 D  $m^6$
25. Given that  $25^x = 5^{8+x}$ , find the value of x  
 Diberi  $25^x = 5^{8+x}$ , carikan nilai x.

- A. 1  
 B. 2  
 C. 4  
 D. 8

- 26 List all the integers x that satisfy both the inequalities  $x - 1 < 5$  and  $x - \frac{3}{4} \geq 2$ .  
 Senaraikan semua integer yang memuaskan kedua-dua ketaksamaan  $x - 1 < 5$   
 dan  $x - \frac{3}{4} \geq 2$ .

- A. 2, 3  
 B. 4, 5  
 C. 3, 4, 5  
 D. 3, 4, 5, 6

- 27 Solve the simultaneous inequalities  $\frac{1}{2}x < 3$  and  $6 - 2x \leq 10$

Selesaikan ketaksamaan linear  $\frac{1}{2}x < 3$  dan  $6 - 2x \leq 10$

- A  $-2 < x \leq 6$   
 B  $-2 \leq x < 6$   
 C  $-6 < x \leq 2$   
 D  $-6 \leq x < 2$

28. Diagram 12 is a bar chart showing the number of medals obtained by a school in a sports championship in the year 2008.

*Rajah 12 ialah carta palang yang menunjukkan bilangan pingat yang dimenangi oleh sebuah sekolah dalam kejohanan sukan pada tahun 2008.*

Number of medals

*Bilangan pingat*

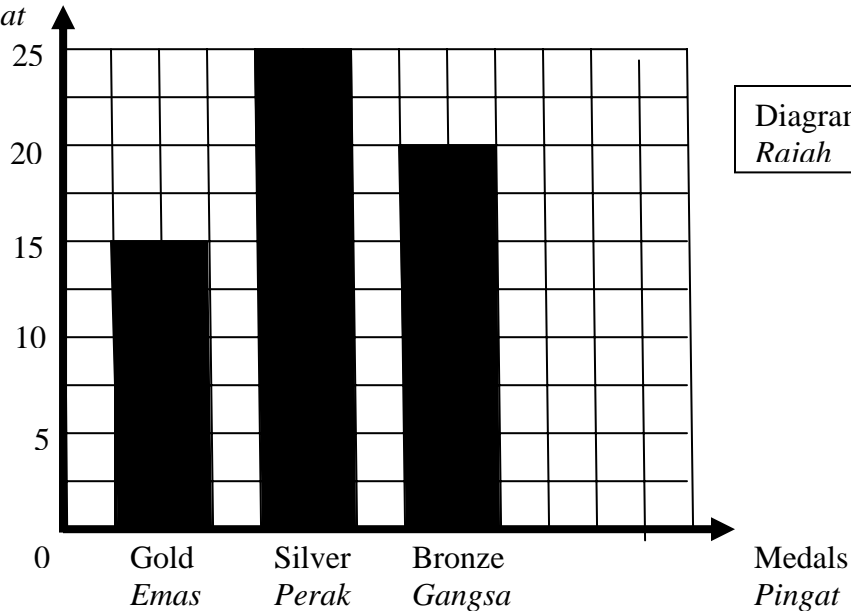


Diagram 12  
Rajah 12

If a pie chart is drawn to represent the given information, calculate the difference of the angle sector which represent the gold and bronze medals.

*Jika satu carta pai dilukis untuk mewakili maklumat yang diberi, hitung beza sudut sektor yang mewakili bilangan pingat emas dan pingat gangsa.*

- A 5    B 20    C 30    D 60

29. Diagram 13 is a pie chart which shows the combined results of a test taken by two groups of students. Table 1 shows the results of the groups, but is incomplete.

*Rajah 13 ialah carta pai yang menunjukkan gabungan keputusan suatu ujian bagi dua kumpulan murid. Jadual 1 menunjukkan keputusan ujian itu mengikut kumpulan, tetapi belum dilengkapkan.*

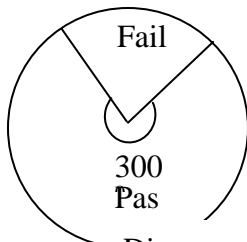


Diagram 13  
Rajah 13

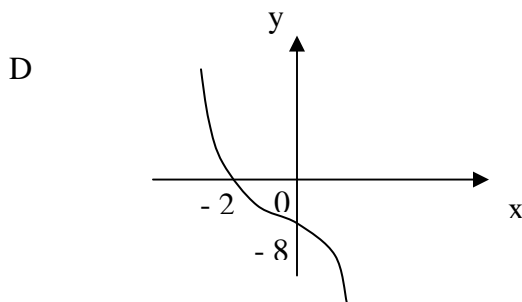
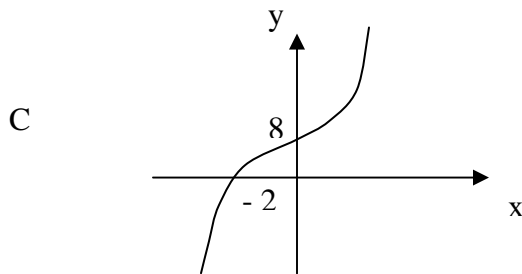
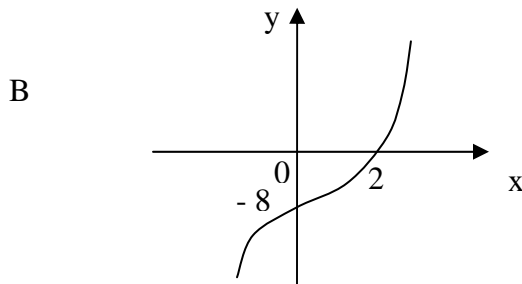
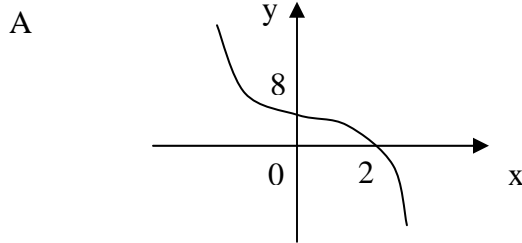
Group <i>Kumpulan</i>	Results <i>Keputusan</i>	
	Number of Passes <i>Bilangan Lulus</i>	Number of Failures <i>Bilangan Gagal</i>
Jujur	180	50
Dedikasi		
TOTAL <i>JUMLAH</i>	400	

Dapatkan skema Jawapan di Laman 14

Calculate the number of students in the Dedikasi Group.  
*Hitungkan bilangan murid dalam kumpulan Dedikasi.*

- A 210                      B 250                      C 270                      D 300

30. Which of the following graphs represents  $y = 8 - x^3$ ?  
*Antara graf berikut, yang manakah mewakili  $y = 8 - x^3$  ?*



Dapatkan skema Jawapan di Laman 15

31. Diagram 14 shows a Venn diagram with the universal set  $\xi = E \cup F \cup G$   
 Rajah 14 menunjukkan gambar rajah Venn dengan set semesta  $\xi = E \cup F \cup G$

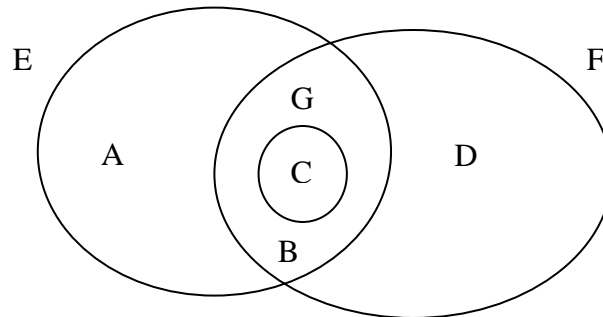
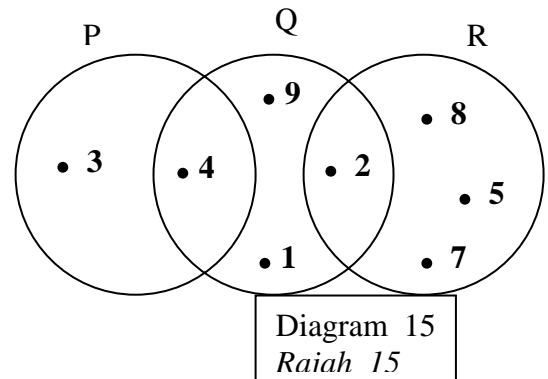


Diagram 14  
 Rajah 14

Considering the four regions, **A**, **B**, **C** and **D**, which of these represents the set  $E \cap F \cap G'$   
 Antara kawasan **A**, **B**, **C** dan **D**, yang manakah mewakili set  $E \cap F \cap G'$

32. Diagram 15 is a Venn diagram which shows the elements of sets P, Q and R.  
 Rajah 15 ialah gambar rajah Venn yang menunjukkan unsur-unsur bagi set P, set Q, dan set R.



If the universal set  $\xi = P \cup Q \cup R$ ,  
 then the set  $(P \cup Q)' \cup R$   
 Jika set semesta  $\xi = P \cup Q \cup R$ ,  
 maka set  $(P \cup Q)' \cup R$

- A {1,2,9}
- B {5,7,8}
- C {1,2,4,9}
- D {2,5,7,8}

Dapatkan skema Jawapan di Laman



33 Given that the universal set  $\xi = \{x : 1 \leq x \leq 10, x \text{ is an integer}\}$ ,

$P = \{x ; x \text{ is a prime number}\}$  and  $Q = \{x : x \text{ is a factor of } 35\}$ , find  $\cap(P \cap Q)$ '

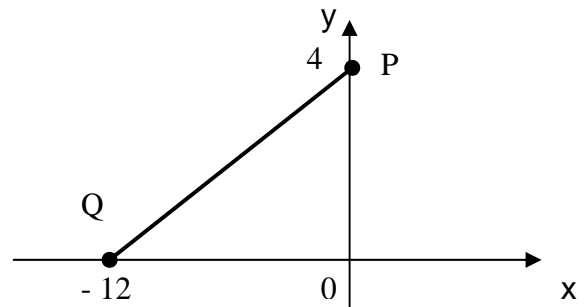
*Diberi set semesta  $\xi = \{x : 1 \leq x \leq 10, x \text{ ialah integer}\}$ ,*

*$P = \{x ; x \text{ ialah nombor perdana}\}$  dan  $Q = \{x : x \text{ ialah factor } 35\}$ , Cari  $\cap(P \cap Q)$ '*

A 2            B 3            C 7            D 8

34 Diagram 16 shows a straight line PQ on a Cartesian plane.

*Rajah 16 menunjukkan garis lurus PQ pada satah Cartesian.*



What is the gradient of PQ ?

*Apakah kecerunan PQ ?*

A -3            B  $-\frac{1}{3}$

C  $\frac{1}{3}$             D 3

Diagram 16  
Rajah 16

35. Diagram 17 shows 10 identical cubes, labelled S, I, G, N, A, T, U, R, E and S.

*Rajah 17 menunjukkan 10 kiub yang serupa berlabel S, I, G, N, A, T, U, R, E dan S.*

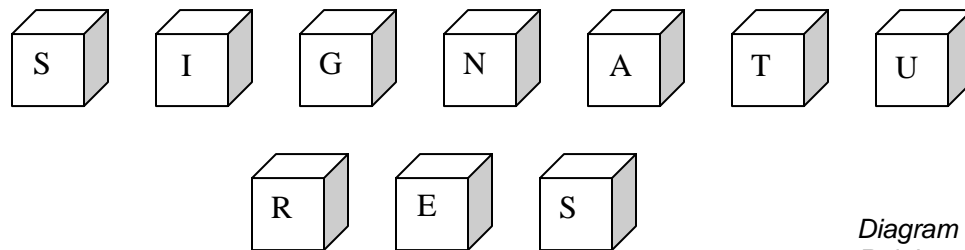


Diagram 17  
Rajah 17

A cube is chosen at random.

State the probability that the cube chosen is a consonant.

*Sebuah kiub dipilih secara rawak.*

*Nyatakan kebarangkalian bahawa kiub yang dipilih itu ialah konsonan.*

A  $\frac{3}{10}$             B  $\frac{2}{5}$             C  $\frac{7}{10}$             D  $\frac{3}{5}$

36. A box contains 5 red pens, 3 blue pens and a number of black pens. A pen is chosen at random from the box. The probability that a blue pen is chosen is  $\frac{1}{6}$ . Find the probability of choosing a black pen.

*Sebuah kotak mengandungi 5 batang pen merah, 3 batang pen biru dan beberapa Batang pen hitam. Sebatang pen dipilih secara rawak dari kotak itu.*

*Kebarangkalian sebatang pen biru dipilih ialah  $\frac{1}{6}$ . Cari kebarangkalian memilih sebatang pen hitam.*

A  $\frac{1}{3}$                       B  $\frac{5}{9}$                       C  $\frac{1}{2}$                       D  $\frac{7}{9}$

37. Given  $Y \propto \frac{1}{\sqrt{X}}$ , and that  $Y = 3$  when  $X = 16$ . The relation between  $Y$  and  $X$  is

*Diberi bahawa  $Y \propto \frac{1}{\sqrt{X}}$ , dan  $Y = 3$  apabila  $X = 16$ . Hubungan diantara  $Y$  dan  $X$  ialah*

A  $Y = \frac{8}{\sqrt{X}}$                       B  $Y = \frac{1}{6\sqrt{X}}$

C  $Y = \frac{12}{\sqrt{X}}$                       D  $Y = \frac{4}{\sqrt{X}}$

38. Table 2 shows some values of the variables  $W$ ,  $X$  and  $Y$ .  
*Jadual 2 menunjukkan beberapa nilai bagi pembolehubah  $W, X$  dan  $Y$ .*

W	X	Y
6	3	9
p	4	8

Table 2  
*Jadual 2*

It is given that  $W$  varies directly as the cube of  $X$  and inversely as  $Y$ . Find the value of  $p$ .

*Diberi bahawa  $W$  berubah secara langsung dengan kuasa tiga bagi  $X$  dan secara songsang dengan  $Y$ . Cari nilai  $p$ .*

A 12                                      B 16  
C 24                                      D 32

39.  $\frac{1}{2}\begin{pmatrix} 10 & -12 \\ 8 & 4 \end{pmatrix} + \begin{pmatrix} 4 & 5 \\ 0 & -2 \end{pmatrix} =$

A  $\begin{pmatrix} 14 & -7 \\ 8 & 2 \end{pmatrix}$

B  $\begin{pmatrix} 9 & -7 \\ 4 & 2 \end{pmatrix}$

C  $\begin{pmatrix} 9 & -1 \\ 4 & 0 \end{pmatrix}$

D  $\begin{pmatrix} 7 & -1 \\ 4 & 1 \end{pmatrix}$

40 If  $\begin{pmatrix} 4 & -9 \\ -3 & 5 \end{pmatrix} + 2\begin{pmatrix} 1 & 0 \\ n & -2 \end{pmatrix} = \begin{pmatrix} 6 & -9 \\ -11 & 1 \end{pmatrix}$ , then  $n =$

Jika  $\begin{pmatrix} 4 & -9 \\ -3 & 5 \end{pmatrix} + 2\begin{pmatrix} 1 & 0 \\ n & -2 \end{pmatrix} = \begin{pmatrix} 6 & -9 \\ -11 & 1 \end{pmatrix}$ , maka  $n =$

A. - 8

B. - 7

C. - 6

D. - 4

**END OF QUESTION PAPER**