

**SULIT**  
**1449/1**  
**Matematik**  
**Kertas 1**  
 $1\frac{1}{4}$  **jam**

**1449/1**

**NAMA :** .....

**TINGKATAN:**.....

**PEPERIKSAAN PKBS 2**  
**TINGKATAN 5**

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**MATEMATIK**  
**Kertas 1**  
Satu jam lima belas minit

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**JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU**

1. *Kertas soalan ini mengandungi 40 soalan.*
2. *Jawab **semua** soalan.*
3. *Jawab dengan menghitung ruangan yang betul pada kertas jawapan.*
4. *Bagi setiap soalan hitamkan **satu** ruangan sahaja.*
5. *Rajah yang mengiringi soalan tidak dilukiskan mengikut skala kecuali dinyatakan.*
6. *Anda dibenarkan menggunakan kalkulator saintifik yang tidak boleh diprogram.*

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Kertas soalan ini mengandungi **22** halaman bercetak

**[Lihat sebelah**  
**SULIT**

**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 <math>a^m \times a^n = a^{m+n}</math></p> <p>2 <math>a^m \div a^n = a^{m-n}</math></p> <p>3 <math>(a^m)^n = a^{mn}</math></p> <p>4 <math>A^{-1} = \frac{1}{ad-bc} \begin{pmatrix} d &amp; -b \\ -c &amp; a \end{pmatrix}</math></p> <p>5 Distance / Jarak<br/> <math>= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}</math></p> <p>6 Midpoint / Titik tengah<br/> <math>(x, y) = \left( \frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)</math></p> <p>7 Average speed = <math>\frac{\text{distance travelled}}{\text{time taken}}</math><br/> <i>Purata laju = <math>\frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}</math></i></p> <p>8 Mean = <math>\frac{\text{sum of data}}{\text{number of data}}</math><br/> <i>Min = <math>\frac{\text{hasil tambah nilai data}}{\text{bilangan data}}</math></i></p> <p>9 Mean = <math>\frac{\text{sum of (classmark} \times \text{frequency)}}{\text{sum of frequencies}}</math><br/> <i>Min = <math>\frac{\text{hasil tambah (nilai titik tengah kelas} \times \text{kekerapan)}}{\text{hasil tambah kekerapan}}</math></i></p> | <p>10 Pythagoras Theorem<br/> <i>Teorem Pithagoras</i><br/> <math>c^2 = a^2 + b^2</math></p> <p>11 <math>P(A) = \frac{n(A)}{n(S)}</math></p> <p>12 <math>P(A') = 1 - P(A)</math></p> <p>13 <math>m = \frac{y_2 - y_1}{x_2 - x_1}</math></p> <p>14 <math>m = -\frac{y\text{-intercept}}{x\text{-intercept}}</math><br/> <math>m = -\frac{\text{pintasan } y}{\text{pintasan } x}</math></p> |
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**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 =  $\pi r^2$   
*Luas bulatan =  $\pi j^2$*
- 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*  
 $= (n - 2) \times 180^\circ$

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

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

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

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

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

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

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

*Answer all questions*  
*Jawab semua soalan*

- 1 Round off 70 416 correct to three significant figures.

*Bundarkan 70 416 betul kepada tiga angka bererti.*

- A 70 400
- B 70 410
- C 70 420
- D 70 500

- 2  $5.85 \times 10^9 - 4.0 \times 10^7 =$

- A  $5.81 \times 10^9$
- B  $5.81 \times 10^7$
- C  $1.85 \times 10^9$
- D  $1.85 \times 10^7$

- 3  $\frac{6600}{5.5 \times 10^5} =$

- A  $1.20 \times 10^{-8}$
- B  $1.20 \times 10^{-2}$
- C  $1.20 \times 10^2$
- D  $1.20 \times 10^8$

- 4 Express 25.9 in standard form  
*Ungkapkan 25.9 dalam bentuk piawai.*

- A  $2.59 \times 10^{-1}$
- B  $2.59 \times 10^1$
- C  $259 \times 10^{-1}$
- D  $259 \times 10^1$

- 5  $x_2 = 27_{10} - 1101_2$ , then  $x$  is  
 $x_2 = 27_{10} - 1101_2$ , maka  $x$  ialah

A 1110  
 B 1101  
 C 1010  
 D 1001

- 6  $11110_2 - 10111_2 =$   
 A  $100_2$   
 B  $101_2$   
 C  $110_2$   
 D  $111_2$

- 7 Express  $57_8$  as a number in base five.  
 Ungkapkan  $57_8$  sebagai nombor dalam asas lima.

A  $46_5$   
 B  $64_5$   
 C  $142_5$   
 D  $241_5$

- 8 In Diagram 1,  $PQRST$  is a regular pentagon,  $SUT$  is a straight line.  
 Dalam Rajah 1,  $PQRST$  ialah sebuah pentagon sekata.  $SUT$  ialah garis lurus.

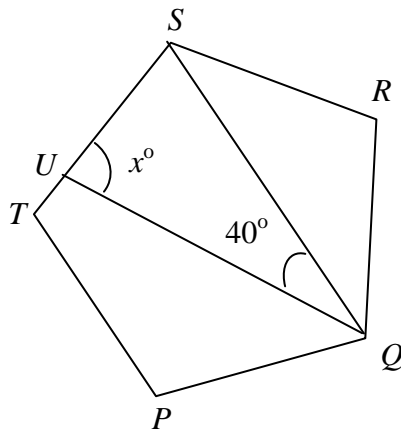


DIAGRAM 1/RAJAH 1

Find the value of  $x$ ,  
*Carikan nilai  $x$ .*

- A 36
- B 58
- C 68
- D 72

- 9 In Diagram 2,  $STU$  is a tangent to the circle  $PQRT$  at  $T$  and  $TQ$  is a diameter of circle.  
*Dalam Rajah 2,  $STU$  ialah tangen kepada bulatan  $PQRT$  di  $T$  dan  $TQ$  ialah diameter bulatan .*

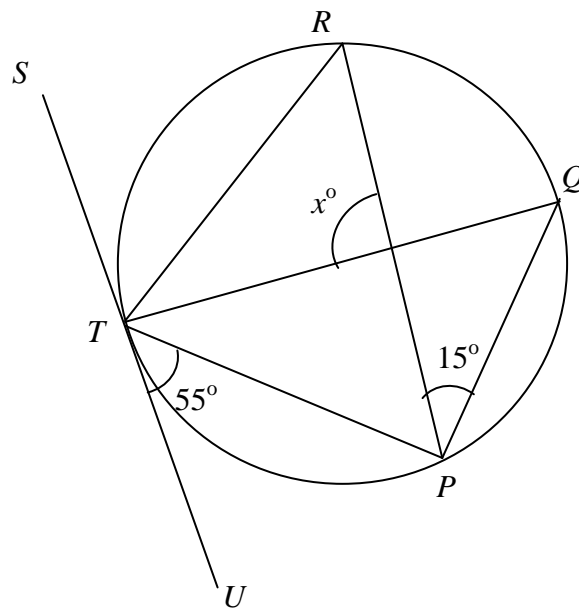


DIAGRAM 2/RAJAH

Value of  $x$  is  
*Nilai  $x$  ialah*

- A 130
- B 125
- C 110
- D 70

- 10 A box contains 6 pieces of red cards, 8 pieces of yellow cards and  $x$  pieces of blue cards. When a card is chosen at random from the box, the probability of getting a red card is  $\frac{2}{7}$ .

The value of  $x$  is

*Sebuah kotak mengandungi 6 keping kad merah, 8 keping kad kuning dan  $x$  keping kad biru. Apabila sekeping kad dikeluarkan secara rawak daripada kotak itu, kebarangkalian kad merah diperoleh ialah  $\frac{2}{7}$ .*

*Nilai  $x$  ialah*

- A 2  
B 5  
C 7  
D 14
- 11 A box contains 8 yellow balls and a number of green balls. When a ball is chosen at random from the box, the probability that the ball is green is  $\frac{3}{7}$ .  
Hence, three yellow balls are taken out from the box.  
When a ball is chosen at random from the box, the probability that the ball is yellow is
- Sebuah kotak mengandungi 8 biji bola kuning dan beberapa biji bola hijau. Jika sebiji bola dipilih secara rawak daripada kotak itu, kebarangkalian bahawa bola itu berwarna hijau ialah  $\frac{3}{7}$ . Seterusnya tiga biji bola kuning dikeluarkan daripada kotak itu.  
Jika sebiji bola dipilih secara rawak daripada kotak itu, kebarangkalian bahawa bola itu berwarna kuning ialah*

- A  $\frac{3}{7}$   
B  $\frac{4}{7}$   
C  $\frac{5}{11}$   
D  $\frac{6}{11}$



- 12 In Diagram 3,  $N$  is the image of the object  $M$  under an anticlockwise rotation of  $90^\circ$  about the centre  $P$ .  
*Dalam Rajah 3,  $N$  ialah imej bagi objek  $M$  di bawah putaran pada titik  $P$  melalui sudut  $90^\circ$  dalam arah lawan jam .*

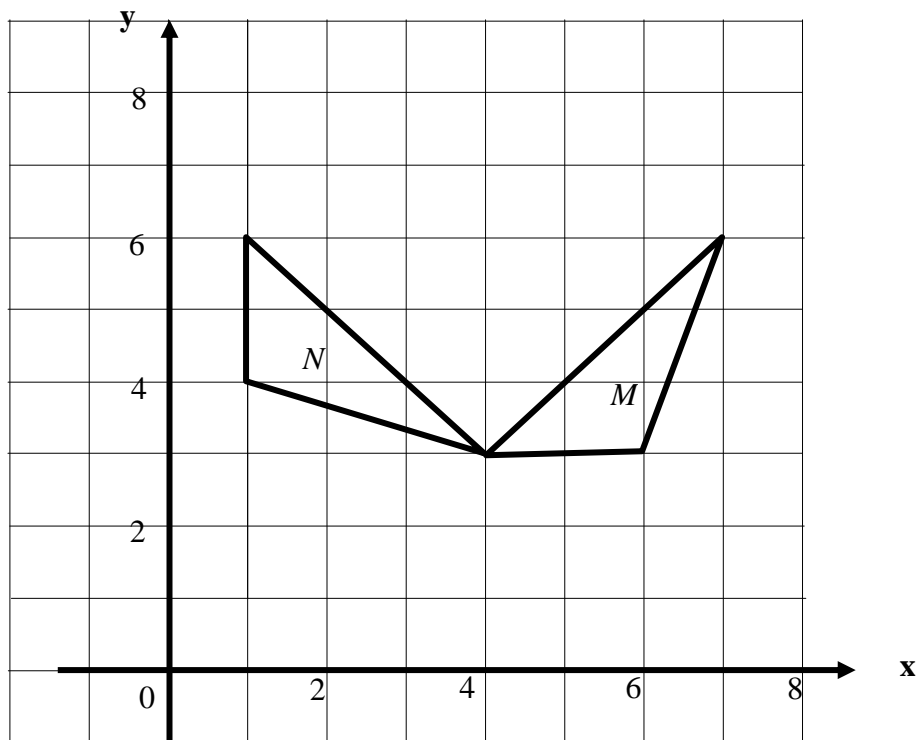


DIAGRAM 3/RAJAH 3

State the coordinate of point  $P$ , centre of rotation.  
*Nyatakan koordinat bagi titik  $P$ , pusat putaran itu.*

- A (4, 2)
- B (4, 6)
- C (6, 3)
- D (7, 6)

- 13 Diagram 4 shows five right angle triangles drawn on square grids.  
*Rajah 4 menunjukkan lima segitiga bersudut tegak dilukis pada grid segiempat sama.*

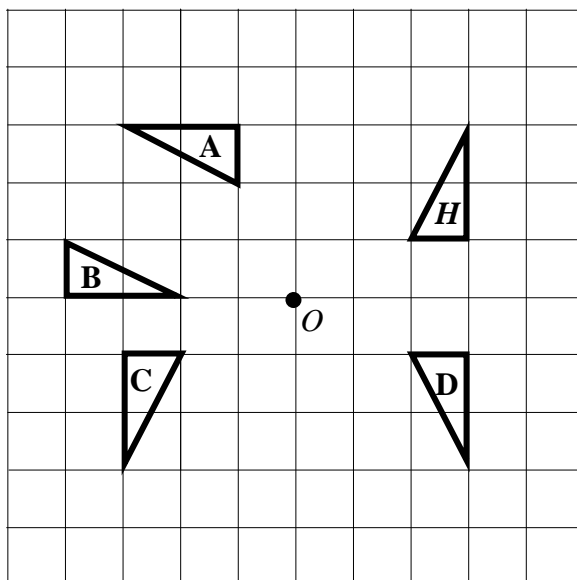


DIAGRAM 4/RAJAH 4

Which of the triangle **A**, **B**, **C** and **D**, is the image of right angle triangle **H** under the rotation  $180^\circ$  about the centre **O** ?

*Antara segitiga bersudut tegak A, B, C dan D, yang manakah imej bagi segitiga bersudut tegak H di bawah putaran  $180^\circ$  pada pusat O ?*

- 14 Diagram 5 shows a pyramid with a horizontal rectangular base. The plane **RST** is a vertical with **T** is vertically above **S**.  
*Rajah 5 menunjukkan sebuah piramid dengan tapak segi empat tepat mengufuk.*  
*Satah RST adalah mencancang dengan T berada tegak di atas S.*

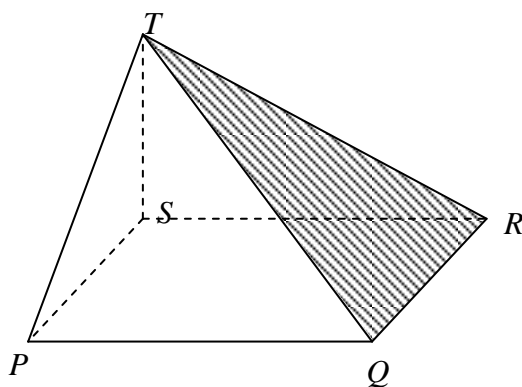


DIAGRAM 5/RAJAH 5

Name of the angle between the plane  $QRT$  and the plane  $PQRS$   
*Namakan sudut di antara satah  $QRT$  dengan satah  $PQRS$ .*

- A  $\angle TRP$
- B  $\angle TQS$
- C  $\angle TQP$
- D  $\angle TRS$

15 Diagram 6 shows a cuboid with rectangular base  $PQRS$ .

*Rajah 6 menunjukkan sebuah kuboid dengan tapak segi empat tepat  $PQRS$ .*

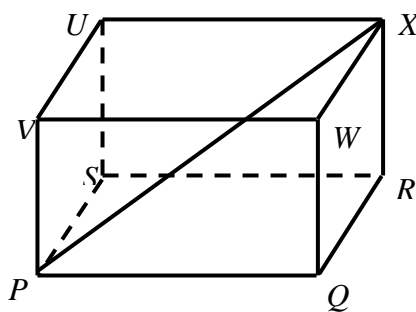


DIAGRAM 6/RAJAH 6

Name the angle between the line  $PX$  and the plane  $PSUV$ .

*Namakan sudut di antara garis  $PX$  dengan satah  $PSUV$ .*

- A  $\angle PXU$
- B  $\angle XPU$
- C  $\angle XPV$
- D  $\angle SPX$

16 Given  $\cos y = -0.7880$  and  $180^\circ < y < 360^\circ$ , value  $y$  is  
*Diberi  $\cos y = -0.7880$  dan  $180^\circ < y < 360^\circ$ , nilai  $y$  ialah*

- A  $38^\circ$
- B  $142^\circ$
- C  $218^\circ$
- D  $322^\circ$

- 17 List all the integers  $x$  that satisfy both inequalities  $2x < 8$  dan  $15 - 3x \leq 9$ .  
*Senaraikan semua integer  $x$  yang memuaskan kedua-dua ketaksamaan  $2x < 8$  dan  $15 - 3x \leq 9$ .*

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

- 18 In Diagram 7,  $PR$  and  $QS$  to represented two building on flat ground. Given the elevation angle  $R$  from  $S$  is  $18^\circ$ .

*Dalam Rajah 7,  $PR$  dan  $QS$  mewakili dua bangunan pada tanah mengufuk. Diberi bahawa sudut tunduk  $R$  dari  $S$  ialah  $18^\circ$ .*

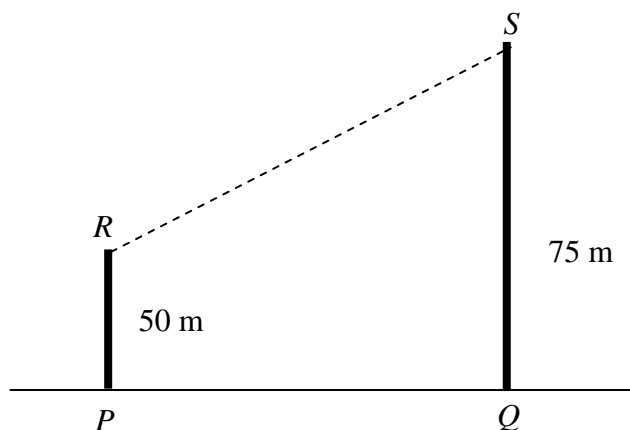


DIAGRAM 7/ RAJAH 7

Calculate distance with two building  
*Hitungkan jarak antara dua bangunan itu*

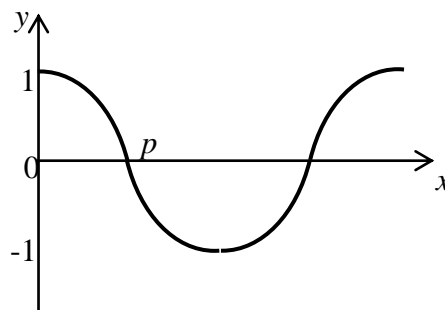
- A 76.94  
B 80.90  
C 26.29  
D 25.00

- 19 In Diagram 8,  $P$  is vertex of pole. The distance  $QR$  is 30 m. The angle depression angle  $Q$  from vertex  $P$  is  $42^\circ$ .  
*Dalam Rajah 8,  $P$  ialah puncak sebatang tiang. Jarak  $QR$  ialah 30 m. Sudut tunduk  $Q$  dari puncak  $P$  ialah  $42^\circ$ .*



Calculate the height of pole, in m  
*Hitungkan tinggi, dalam m, tiang itu.*

- A 27.01  
 B 29.09  
 C 30.90  
 D 33.32
- 20 Diagram 9 shows the graph  $y = \cos \frac{x}{2}$   
*Rajah 9 menunjukkan graf  $y = \cos \frac{x}{2}$*



The value of  $p$  is  
*Nilai  $p$  ialah*

- A  $90^\circ$   
 B  $180^\circ$   
 C  $270^\circ$   
 D  $360^\circ$

- 21 Diagram 10 show graph for function  $y = x^2 - 2x$   
*Rajah 10 menunjukkan graf bagi fungsi  $y = x^2 - 2x - 3$*

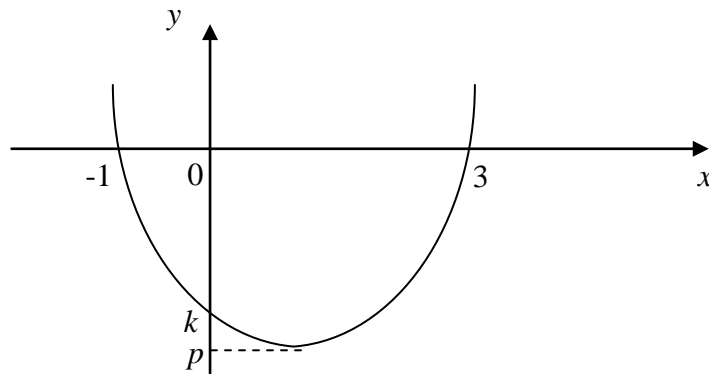


DIAGRAM 10 /RAJAH 10

Find value  $k$  and value  $p$   
*Carikan nilai  $k$  dan nilai  $p$ .*

- A  $k = -3, p = -3$   
 B  $k = -3, p = -4$   
 C  $k = -2, p = -3$   
 D  $k = -2, p = -3$
- 22  $2(p - 2m)(2p - m) =$
- A  $4p^2 + 10mp + 4m^2$   
 B  $4p^2 + 10mp - 4m^2$   
 C  $4p^2 - 10mp + 4m^2$   
 D  $4p^2 - 10mp - 4m^2$
- 23  $(3p + m)(p - 2m) - 2p^2 =$
- A  $3p^2 + 5mp - 2m^2$   
 B  $3p^2 - 5mp - 2m^2$   
 C  $p^2 - 5mp - 2m^2$   
 D  $p^2 + 5mp - 2m^2$

24 Given that  $\frac{m}{\sqrt{n+1}} = 2$ , then  $n =$

Diberi  $\frac{m}{\sqrt{n+1}} = 2$ , maka  $n =$

A  $m^2 - 8$

B  $m^2 - 1$

C  $\frac{m^2 - 4}{4}$

D  $\frac{m^2 - 1}{4}$

25 Given that  $1 - k = \frac{k}{2}$ , then  $k =$

Diberi  $1 - k = \frac{k}{2}$ , maka  $k =$

A 1

B  $\frac{2}{3}$

C  $-\frac{2}{3}$

D -2

26 The value  $(0.008)^{-\frac{2}{3}} =$

Nilaikan  $(0.008)^{-\frac{2}{3}} =$

A -0.04

B 0.012

C 0.04

D 25

27 Simplify  $(pm^4)^3 \div (p^{-1}m^5)$

Ringkaskan  $(pm^4)^3 \div (p^{-1}m^5)$

A  $p^4m^7$

B  $p^2m^{17}$

C  $p^2m^7$

D  $pm^9$

28 Table 1 is the frequency table showing the points collected by a group of students in a tournament.

Jadual 1 ialah jadual kekerapan yang menunjukkan mata yang dikumpul oleh sekumpulan pelajar dalam suatu pertandingan

<b>Points / Mata</b>	0	1	2	3	4
<b>Number of students</b> <i>Bilangan Pelajar</i>	5	3	6	y	9

TABLE 1/JADUAL 1

If the mean point is 2.4, find the value of y

Jika mata min ialah 2.4, carikan nilai y

A 6

B 7

C 8

D 9

29 The solution for  $\frac{3k}{4} - 2 \leq 5 - k$  is

Penyelesaian bagi  $\frac{3k}{4} - 2 \leq 5 - k$  ialah

A  $k \geq -4$

B  $k \geq 4$

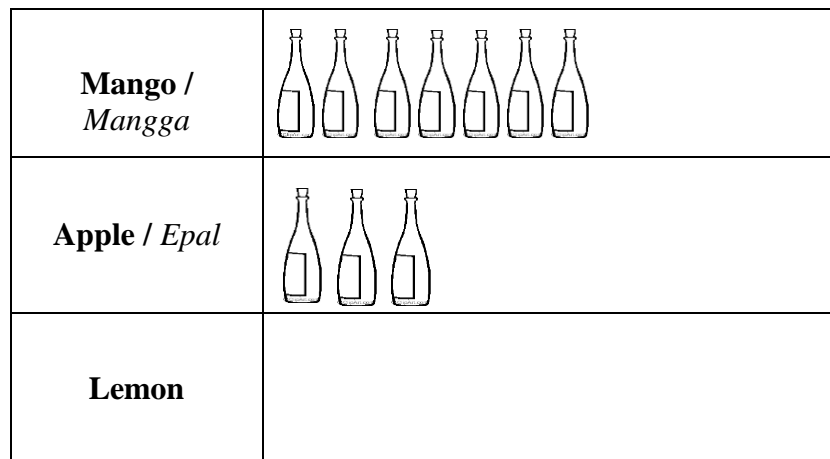
C  $k \leq -4$

D  $k \leq 4$



- 30 Diagram 11 is a pictograph showing the number of bottles of juice sold by the school canteen in a particular week. The number of bottles of lemon juice are not shown.

*Rajah 11 ialah piktograf yang menunjukkan bilangan botol minuman jus yang dijual oleh sebuah kantin sekolah pada minggu tertentu. Bilangan botol jus lemon yang telah dijual tidak ditunjukkan.*



*Mewakili 15 botol jus*  
Represents 15 bottles of juice

DIAGRAM 11/RAJAH 11

The sales of apple juice are 20% of the total sales of the week. Calculate the number of bottles of lemon juice sold.

*Jualan jus epal adalah 20% daripada jumlah jualan minggu itu.  
Hitungkan bilangan botol jus lemon yang telah dijual .*

- A 45
- B 75
- C 105
- D 150

- 31** Diagram 12 show pie chart which shows the combination results test for two groups of students. Table 2, show the test result by group is not complete  
*Rajah 12 ialah carta pai yang menunjukkan gabungan keputusan suatu ujian bagi dua kumpulan pelajar. Jadual 2, menunjukkan keputusan ujian itu mengikut kumpulan tetapi belum di lengkapkan .*

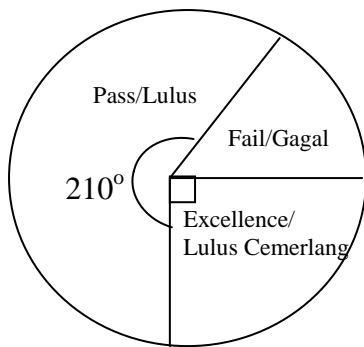


DIAGRAM 12/RAJAH

Group Kumpulan	Result/Keputusan		
	Excellence Cemerlang	Pass Lulus	Fail Gagal
Maju	90	180	50
Jaya			
Jumlah		630	

TABLE 2 /JADUAL 2

Calculate the number of students group Jaya  
*Hitungkan bilangan murid kumpulan Jaya.*

- A 760
  - B 630
  - C 5
  - D 330
- 32** Diagram 13 is picture Venn diagram shown elements for set *D*, set *E* and set *F*.  
*Rajah 13 ialah gambar rajah Venn yang menunjukkan unsur-unsur bagi set *D*, set *E* dan set *F*.*

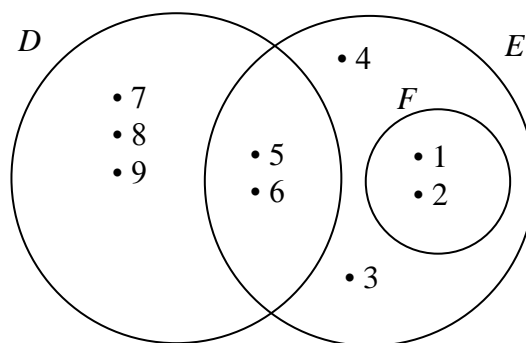


DIAGRAM 13 /RAJAH 13

If universal set  $\xi = D \cup E \cup F$ , then set  $D' \cap F'$  is  
 Jika set semesta  $\xi = D \cup E \cup F$ , maka set  $D' \cap F'$  ialah

- A {3, 4}
- B {1, 2, 3, 4}
- C {3, 4, 5, 6}
- D {5, 6, 7, 8, 9}

- 33 Given universal set  $\xi = \{x : 30 \leq x \leq 50, x \text{ is integer}\}$   
 set  $P = \{x : x \text{ has digit 5 or 6}\}$  and  
 set  $Q = \{x : \text{the sum of the digits of } x \text{ is } 5\}$

Find  $n(P \cup Q)$ '

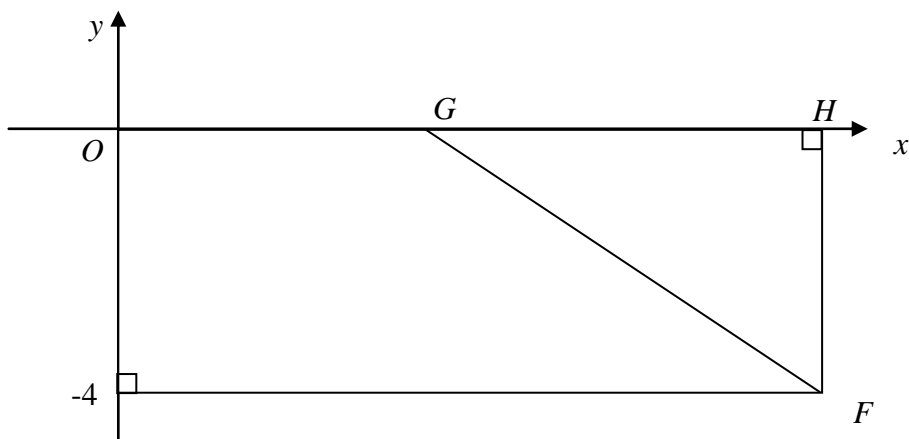
Diberi bahawa set semesta  $\xi = \{x : 30 \leq x \leq 50, x \text{ ialah integer}\}$ ,  
 set  $P = \{x : x \text{ mempunyai digit 5 atau 6}\}$  dan  
 set  $Q = \{x : \text{hasil tambah digit-digit } x \text{ ialah } 5\}$ .

Carikan  $n(P \cup Q)$ '

- A 7
- B 8
- C 13
- D 14

- 34 In Diagram 14,  $G(5, 0)$  is the midpoint to straight line  $OH$ .

Dalam Rajah 14,  $G(5, 0)$  ialah titik tengah garis lurus  $OH$



The gradient of straight line  $GF$  is  
*Kecerunan garis lurus  $GF$  ialah*

A  $-\frac{5}{4}$

B  $-\frac{4}{5}$

C  $\frac{4}{5}$

D  $\frac{5}{4}$

35 The  $x$ -intercept of the straight line  $3x - y + 6 = 0$  is

*Pintasan- $x$  bagi garis lurus  $3x - y + 6 = 0$  ialah*

A 4

B 2

C -2

D -4

36  $P$  varies directly as  $R$  and varies inversely as the square root of  $T$ .

The relation between  $P$ ,  $R$  and  $T$  is

*$P$  berubah secara langsung dengan  $R$  dan secara songsang dengan punca kuasa dua  $T$ . Hubungan yang mengaitkan  $P$ ,  $R$  dan  $T$  ialah*

A  $P \propto \frac{R}{\sqrt{T}}$

B  $P \propto \frac{R}{T^2}$

C  $P \propto RT$

D  $P \propto RT^2$

37 Given that  $X \propto \frac{Y^2}{Z}$  and  $X = 24$  when  $Y = 4$  and  $Z = 2$ .

*Diberi bahawa  $X \propto \frac{Y^2}{Z}$  dan  $X = 24$  apabila  $Y = 4$  dan  $Z = 2$*

*Calculate the value of  $Z$  when  $X = 81$  and  $Y = 6$ .*

*Hitungkan nilai  $Z$  apabila  $X = 81$  dan  $Y = 6$ .*

A  $\frac{2}{9}$

B  $\frac{3}{4}$

C  $\frac{4}{3}$

D  $\frac{9}{2}$

38 Given the matrix equation  $3 \begin{pmatrix} 1 & 2 \\ -2 & 0 \end{pmatrix} - \begin{pmatrix} -2 & m \\ 3 & 4 \end{pmatrix} = \begin{pmatrix} 5 & -1 \\ n & -4 \end{pmatrix}$ ,

find the value of  $m - n$ .

*Diberi persamaan matriks  $3 \begin{pmatrix} 1 & 2 \\ -2 & 0 \end{pmatrix} - \begin{pmatrix} -2 & m \\ 3 & 4 \end{pmatrix} = \begin{pmatrix} 5 & -1 \\ n & -4 \end{pmatrix}$ , carikan*

*nilai  $m - n$ .*

A -16

B -2

C 2

D 16

**39** Given  $2\begin{pmatrix} 3 \\ k \end{pmatrix} - \begin{pmatrix} 5 \\ 6 \end{pmatrix} = \begin{pmatrix} 1 \\ k \end{pmatrix}$ .

*Diberi*  $2\begin{pmatrix} 3 \\ k \end{pmatrix} - \begin{pmatrix} 5 \\ 6 \end{pmatrix} = \begin{pmatrix} 1 \\ k \end{pmatrix}$ .

Find the value of  $k$ .

*Cari nilai  $k$ .*

**A** 0

**B** 2

**C** 3

**D** 6

**40** Given  $\begin{pmatrix} 3 & -2 \\ -4 & k \end{pmatrix} \begin{pmatrix} k \\ 2 \end{pmatrix} = \begin{pmatrix} -25 \\ 14 \end{pmatrix}$ , calculate the value of  $k$ .

*Diberi*  $\begin{pmatrix} 3 & -2 \\ -4 & k \end{pmatrix} \begin{pmatrix} k \\ 2 \end{pmatrix} = \begin{pmatrix} -25 \\ 14 \end{pmatrix}$ , *hitungkan nilai  $k$ .*

**A** 7

**B** 3

**C** -7

**D** -10

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















