



SMK SULTAN ABDULLAH, CHENDERONG BALAI, PERAK

PEPERIKSAAN PERCUBAAN SPM

TINGKATAN 5

1449/1

MATEMATIK

Kertas 1

November 2022

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**JANGAN BUKA KERTAS SOALAN INI
SEHINGGA DIBERITAHU**

- 1. Kertas soalan ini adalah dalam dwibahasa.*

2. *Soalan dalam Bahasa Melayu mendahului soalan yang sepadan dalam Bahasa Inggeris.*
3. *Calon dikehendaki membaca maklumat di halaman belakang kertas soalan ini.*

DISEDIAKAN OLEH,

.....

DISEMAK OLEH,

.....

DISAHKAN OLEH,

.....

Kertas soalan ini mengandungi 25 halaman bercetak

RUMUS MATEMATIK MATHEMATICAL FORMULAE			
Rumus-rumus berikut boleh membantu anda untuk menjawab soalan. Simbol-simbol yang diberi adalah yang biasa digunakan. <i>The following formulae may be helpful in answering the questions. The symbols given are the ones commonly used</i>			
NOMBOR DAN OPERASI NUMBERS AND OPERATIONS			
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	$a^{\frac{m}{n}} = (a^{\frac{1}{n}})^m$
5	Faedah mudah / <i>Simple interest</i> , $I = Prt$		
6	Nilai matang/ <i>Maturity value</i> , $MV = P\left(1 + \frac{r}{n}\right)^{nt}$		
7	Jumlah bayaran balik / <i>Total repayment</i> , $A = P + Prt$		
PERKAITAN RELATIONS			
1	Jarak / <i>Distance</i> = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$		
2	Titik Tengah / <i>midpoint</i> $(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$		
3	Purata laju = $\frac{\text{jarak yang dilalui}}{\text{masa yang diambil}}$ <i>Average speed</i> = $\frac{\text{distance travelled}}{\text{time taken}}$		
4	$m = \frac{y_2 - y_1}{x_2 - x_1}$		
5	$m = -\frac{\text{pintasan-}y}{\text{pintasan-}x}$ $m = -\frac{y\text{-intercept}}{x\text{-intercept}}$		
6	$A^{-1} = \frac{1}{ad - bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$		
SUKATAN DAN GEOMETRI MEASUREMENT AND GEOMETRY			

1	Teorem Pythagoras / <i>Pythagoras Theorem</i> $c^2 = a^2 + b^2$
2	Hasil tambah sudut pedalaman poligon / <i>Sum of interior angles of a polygon</i> $= (n - 2) \times 180^\circ$
3	Lilitan bulatan = $\pi d = 2\pi r$ <i>Circumference of circle</i> = $\pi d = 2\pi r$
4	Luas bulatan = πr^2 <i>Area of circle</i> = πr^2
5	$\frac{\text{Panjang lengkok}}{2j} = \frac{\text{Arc length}}{2r} = \frac{\text{Angle}}{360^\circ}$
6	$\frac{\text{Luas sektor}}{j^2} = \frac{\text{Area of sector}}{r^2} = \frac{\text{Angle}}{360^\circ}$
7	$\text{Luas layang} = \frac{1}{2} \times \text{hasil darab panjang dua pepenjuru}$ <i>Area of kite</i> = $\frac{1}{2} \times \text{product of two diagonals}$
8	$\text{Luas trapezium} = \frac{1}{2} \times \text{hasil tambah dua sisi selari} \times \text{tinggi}$ <i>Area of trapezium</i> = $\frac{1}{2} \times \text{sum of parallel sides} \times \text{height}$
9	Luas permukaan silinder = $2\pi r^2 + 2\pi rh$ <i>Surface area of cylinder</i> = $2\pi r^2 + 2\pi rh$
10	Luas permukaan kon = $\pi r^2 + \pi rs$ <i>Surface area of cone</i> = $\pi r^2 + \pi rs$
11	Luas permukaan sfera = $4\pi r^2$ <i>Surface area of sphere</i> = $4\pi r^2$
12	Isipadu prisma tegak = $\text{luas keratan rentas} \times \text{tinggi}$ <i>Volume of right prism</i> = $\text{cross sectional area} \times \text{height}$
13	Isipadu silinder = $\pi r^2 h$ <i>Volume of cylinder</i> = $\pi r^2 h$
14	Isipadu kon = $\frac{1}{3} \pi r^2 h$ <i>Volume of cone</i> = $\frac{1}{3} \pi r^2 h$
15	Isipadu sfera = $\frac{4}{3} \pi r^3$

	PAGE * MERGEFORMAT 2 $\text{Volume of sphere} = \frac{4}{3} \pi r^3$
16	$\text{Isipadu piramid tegak} = \frac{1}{3} \times \text{luas tapak} \times \text{tinggi}$ $\text{Volume of right pyramid} = \frac{1}{3} \times \text{base area} \times \text{height}$
17	$\text{Faktor skala, } k = \frac{PA'}{PA}$ $\text{Scale factor, } k = \frac{PA'}{PA}$
18	$\text{Luas imej} = k^2 \times \text{luas objek}$ $\text{Area of image} = k^2 \times \text{area of object}$
STATISTIK DAN KEBARANGKALIAN STATISTICS AND PROBABILITY	
1	$\text{Min / Mean, } \bar{x} = \frac{\sum x}{N}$
2	$\text{Min / Mean, } \bar{x} = \frac{\sum fx}{f}$
3	$\text{Varians / Variance, } s^2 = \frac{\sum (x - \bar{x})^2}{N} = \frac{\sum x^2}{N} - \bar{x}^2$
4	$\text{Varians / Variance, } s^2 = \frac{\sum f(x - \bar{x})^2}{f} = \frac{\sum fx^2}{f} - \bar{x}^2$
5	$\text{Sisihan piawai / Standard deviation, } s = \sqrt{\frac{\sum (x - \bar{x})^2}{N}} = \sqrt{\frac{\sum x^2}{N} - \bar{x}^2}$
6	$\text{Sisihan piawai / Standard deviation, } s = \sqrt{\frac{\sum f(x - \bar{x})^2}{f}} = \sqrt{\frac{\sum fx^2}{f} - \bar{x}^2}$
7	$P(A) = \frac{n(A)}{n(S)}$
8	$P(A') = 1 - P(A)$

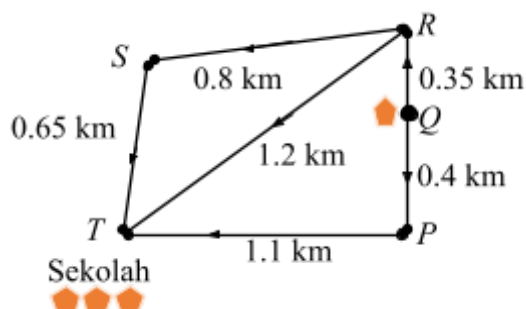
Jawab **semua** soalan
 Answer **all** questions

1.	Bundarkan 0.00497 betul kepada dua angka bererti. <i>Round off 0.00497 correct to two significant figures.</i>	
	A	0.0040
	B	0.0049
	C	0.0050
	D	0.00050

2.	Diberi $x = 1.5 \times 10^3$ dan $y = 3.2 \times 10^4$. Kirakan nilai bagi $2xy$ dalam bentuk piawai. <i>Given $x = 1.5 \times 10^3$ and $y = 3.2 \times 10^4$. Find the value of $2xy$ in standard form.</i>	
	A	4.8×10^{-7}
	B	4.8×10^7
	C	9.6×10^{-7}
	D	9.6×10^7

3.	Tentukan bilangan bucu satu pokok, jika pokok tersebut mempunyai 5 tepi. <i>Determine the number of vertices of a tree if it has 5 edge.</i>	
	A	4
	B	5
	C	6
	D	7

4. Rajah 4 menunjukkan graf terarah dari rumah Azlan di Q , ke sekolah di T . Tentukan laluan terbaik yang dipilih oleh Azlan untuk ke sekolah dengan mengambil kira jarak terpendek.
Diagram 4 shows a directed graph from Azlan's house in Q to the school in T . Determine the best route Azlan chooses go to school taking the shortest distance.

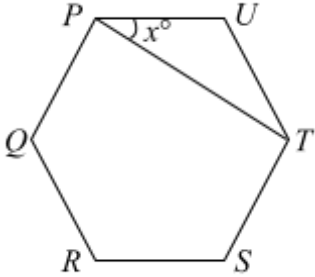


Rajah / Diagram 4

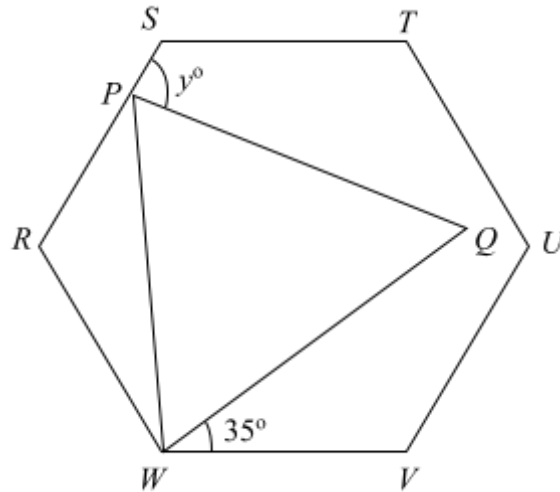
- A $Q \longrightarrow R \longrightarrow S \longrightarrow T$
 B $Q \longrightarrow P \longrightarrow R \longrightarrow T$
 C $Q \longrightarrow R \longrightarrow T$
 D $Q \longrightarrow P \longrightarrow T$

5.	Tukarkan $4 \times 5^3 + 2 \times 5^1 + 3$ kepada satu nombor dalam asas lima. <i>Convert $4 \times 5^3 + 2 \times 5^1 + 3$ to a number in base five.</i>	
	A	423_5
	B	4023_5
	C	4230_5
	D	40203_5

6.	$427_8 - 37_8 =$	
	A	370_8
	B	474_8
	C	570_8
	D	770_8

7.	Dalam Rajah 7, $PQRSTU$ ialah heksagon sekata. PT ialah garis lurus. <i>In Diagram 7, $PQRSTU$ is a regular hexagon. PT is a straight line.</i>	
		
	Rajah / Diagram 7	
	Cari nilai x. <i>Find the value of x.</i>	
	A	20°
	B	30°
	C	40°
	D	50°

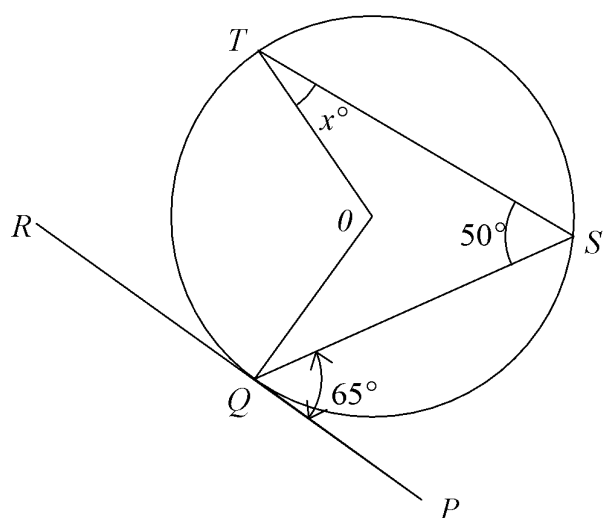
8. Dalam Rajah 8, $RSTUVW$ ialah sebuah hexagon sekata dan PQW ialah sebuah segi tiga sama sisi. RPS ialah garis lurus.
In Diagram 8, $RSTUVW$ is a regular hexagon and PQW is an equilateral triangle. RPS is a straight line.



Rajah / Diagram 8

Cari nilai y .
Find the value of y .

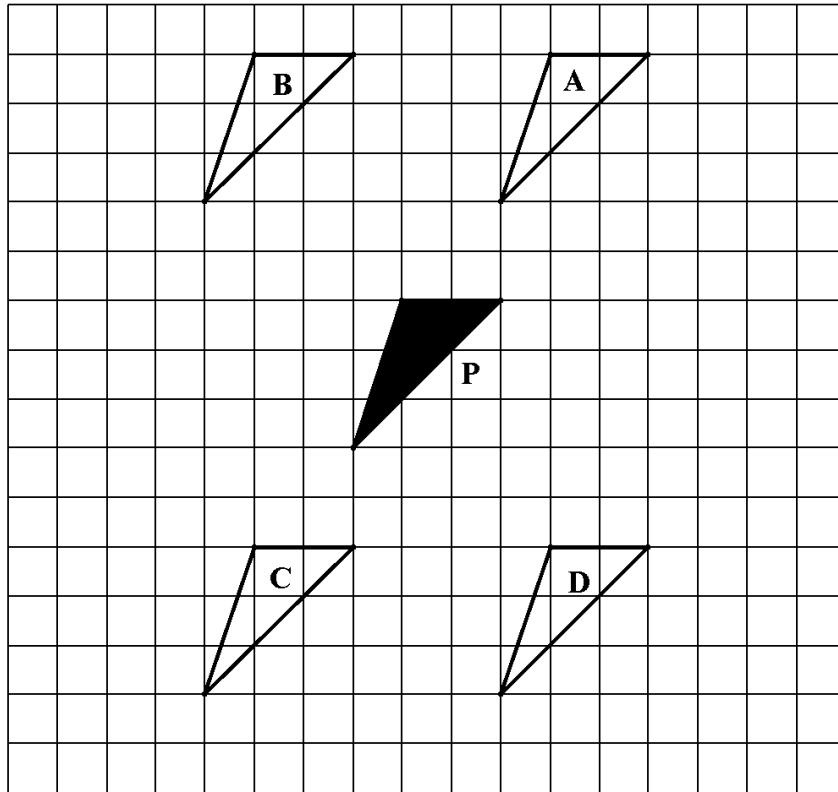
- | | |
|----------|----|
| A | 60 |
| B | 65 |
| C | 80 |
| D | 85 |

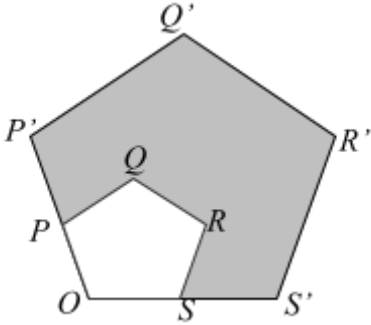
9.	Dalam Rajah 9, PQR ialah tangen kepada bulatan TQS berpusat di O. <i>In Diagram 9, PQR is the tangent to the circle TQS with centre O.</i>	
		
	Rajah / Diagram 9	
	Cari nilai x. <i>Find the value of x.</i>	
	A	10
	B	15
	C	20
	D	25

10.

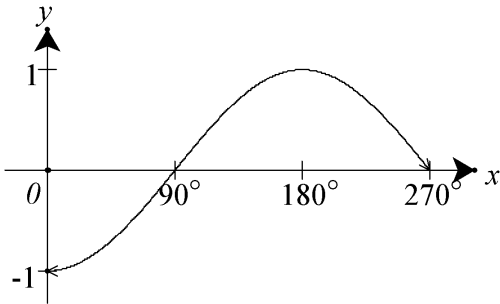
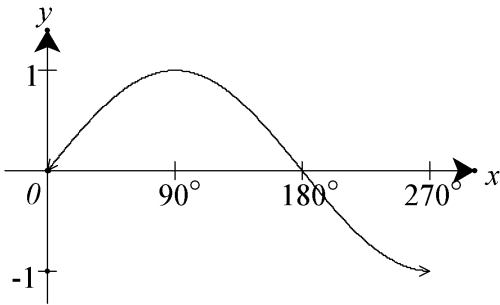
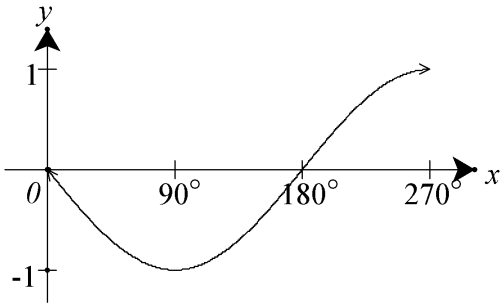
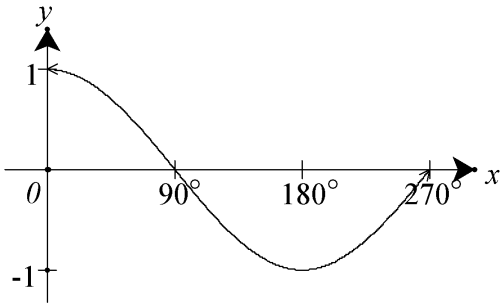
Antara yang berikut, manakah imej bagi sisi tiga P dibawah satu translasi $\begin{pmatrix} -3 \\ 5 \end{pmatrix}$?

Which of the following is the image of triangle P under a translation $\begin{pmatrix} -3 \\ 5 \end{pmatrix}$?



11.	Dalam Rajah 11, pentagon $OP'Q'R'S'$ ialah imej bagi pentagon $OPQRS$, di bawah suatu pembesaran pada pusat O. <i>In Diagram 11, pentagon $OP'Q'R'S'$ is the image of pentagon $OPQRS$, under an enlargement with centre O.</i>		
			
	Rajah / Diagram 11		
	Diberi P ialah titik tengah OP' dan luas pentagon $OPQRS = 16 \text{ cm}^2$, kirakan luas kawasan yang berlorek. <i>Given that P is the midpoint of OP' and the area of pentagon $OPQRS = 16 \text{ cm}^2$, Calculate the area of the shaded region.</i>		
	<table border="1"> <tr> <td data-bbox="252 943 300 981">A</td> <td data-bbox="316 943 1460 981">8 cm^2</td> </tr> </table>	A	8 cm^2
A	8 cm^2		
	<table border="1"> <tr> <td data-bbox="252 1003 300 1041">B</td> <td data-bbox="316 1003 1460 1041">32 cm^2</td> </tr> </table>	B	32 cm^2
B	32 cm^2		
	<table border="1"> <tr> <td data-bbox="252 1064 300 1102">C</td> <td data-bbox="316 1064 1460 1102">48 cm^2</td> </tr> </table>	C	48 cm^2
C	48 cm^2		
	<table border="1"> <tr> <td data-bbox="252 1124 300 1162">D</td> <td data-bbox="316 1124 1460 1162">64 cm^2</td> </tr> </table>	D	64 cm^2
D	64 cm^2		

12.	Diberi $\tan x = -1.732$ and $0^\circ \leq x \leq 360^\circ$. Cari dua nilai yang mungkin bagi x. <i>Given $\tan x = -1.732$ and $0^\circ \leq x \leq 360^\circ$. Find two possible values of x.</i>		
	<table border="1"> <tr> <td data-bbox="252 1408 300 1447">A</td> <td data-bbox="316 1408 1460 1447">60° dan / and 120°</td> </tr> </table>	A	60° dan / and 120°
A	60° dan / and 120°		
	<table border="1"> <tr> <td data-bbox="252 1460 300 1498">B</td> <td data-bbox="316 1460 1460 1498">60° dan / and 240°</td> </tr> </table>	B	60° dan / and 240°
B	60° dan / and 240°		
	<table border="1"> <tr> <td data-bbox="252 1512 300 1550">C</td> <td data-bbox="316 1512 1460 1550">120° dan / and 300°</td> </tr> </table>	C	120° dan / and 300°
C	120° dan / and 300°		
	<table border="1"> <tr> <td data-bbox="252 1563 300 1601">D</td> <td data-bbox="316 1563 1460 1601">240° dan / and 300°</td> </tr> </table>	D	240° dan / and 300°
D	240° dan / and 300°		

13.	Graf manakah yang mewakili sebahagian daripada $y = \sin x$? <i>Which graph represents part of $y = \sin x$?</i>	
	A	
	B	
	C	
	D	

14.	Diberi kadar faedah mudah ialah 4% setahun. Cari bilangan tahun yang diperlukan untuk simpanan sebanyak RM5 000 meningkat kepada RM5 800. <i>Given the rate of simple interest is 4% per annum. Find the number of years required for the savings of RM5 000 to increase to RM5 800.</i>	
	A	3
	B	4
	C	5
	D	6

15.	Antara berikut yang manakah bukan satu komponen penting dalam matlamat kewangan SMART? <i>Which of the following is not a key component in the SMART financial goals?</i>	
	A	Belanjawan yang ketat <i>Tight budget</i>
	B	Bersifat realistic <i>Realistic</i>
	C	Boleh di capai <i>Attainable</i>
	D	Khusus <i>Spesific</i>

- 16.** Jadual 16 menunjukkan kadar premium tahunan per RM 1 000 nilai muka insurans hayat boleh baharu yang ditawarkan oleh sebuah syarikat insurans.
The table 16 shows the annual premium rate per RM 1 000 face value of renewable life insurance offered by an insurance company.

Umur <i>Age</i>	Lelaki / <i>Male</i> (RM)		Perempuan / <i>Female</i> (RM)	
	Bukan perokok <i>Non smoker</i>	Perokok <i>Smoker</i>	Bukan perokok <i>Non smoker</i>	Perokok <i>smoker</i>
27	2.13	2.72	1.18	1.40
28	2.13	2.73	1.19	1.42
29	2.13	2.75	1.21	1.44
30	2.13	2.79	1.23	1.46

Jadual / *Table* 16

Dengan nilai muka sebanyak RM 140 000. Hitung premium tahunan bagi seorang lelaki berumur 28 tahun yang tidak merokok.

Based on the face value of RM 140 000. Calculate the annual premium for a 28 year old man who does not smoke.

A RM 166.60

B RM 198.80

C RM 298.20

D RM 382.20

- 17.** Aina makan malam di sebuah restoran. Dia telah makan sepinggan mee goreng, tiga ketul ayam goreng dan secawan milo. Jadual di bawah menunjukkan harga makanan dan minumannya.
Aina had dinner at a restaurant. She had eat a plate of fried noodle, three pieces of fried chicken and a cup of milo. The table below shows the price the food and drink.

Makanan dan Minuman <i>Food and drink</i>	Harga <i>Price</i>
Mee Goreng <i>Fried Noodle</i>	RM 5.50 / pinggan RM 5.50 / <i>plate</i>
Ayam Goreng <i>Fried Chicken</i>	RM 4.50 / ketul RM 4.50 / <i>piece</i>
Milo <i>Milo</i>	RM 4.00 / cawan RM 4.00 / <i>cup</i>

Diberi bahawa restoran itu mengenakan cukai perkhidmatan 6%.

Hitung bil Aina.

It is given that the restaurant charges 6% on service tax.

Calculate Aina's bill.

A RM 14.00

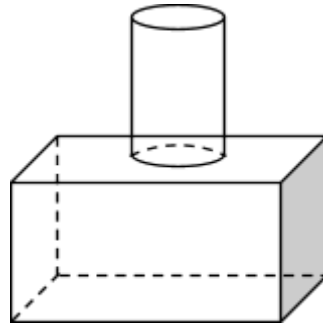
B RM 14.84

C RM 21.62

	D	RM 24.38
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18.	Rajah 18 menunjukkan sebuah kipas. Apabila suis kipas dihidupkan, lokus bagi titik X yang bergerak ialah <i>Diagram 18 shows a fan. When the fan is switched on, the locus of moving point X is</i>	
		
	Rajah / <i>Diagram</i> 18	
	A	Sama jarak / <i>equidistant</i>
	B	Garis lurus / <i>a straight line</i>
	C	Bulatan / <i>a circle</i>
	D	Lengkuk / <i>arc</i>

19. Rajah 19 menunjukkan sebuah pepejal gabungan yang terdiri daripada kuboid dan silinder.
Diagram 19 shows a composite solid consisting of a cuboid and cylinder.



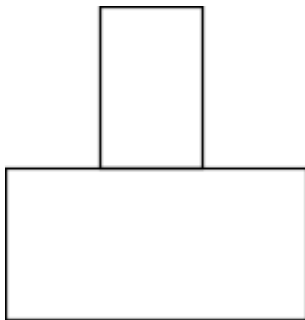
Rajah / Diagram 19

Tentukan lukisan dongakan hadapan bagi gabungan pepejal di atas.
Determine the front elevation drawing for the above solid combination.

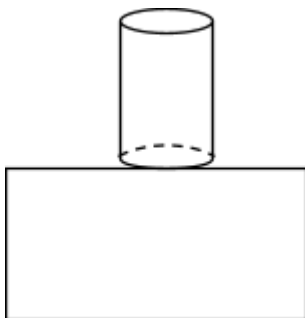
A



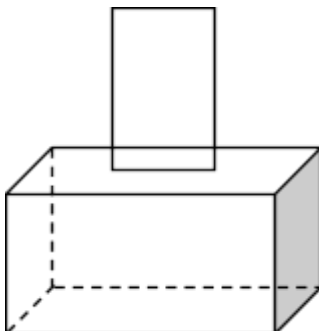
B



C



D



20.	$\frac{r}{2} - s = rs$ Diberi $\frac{r}{2} - s = rs$, r dalam sebutan s ialah <i>Given that $\frac{r}{2} - s = rs$, then r in terms of s is</i>	
	A	$\frac{2s}{1-s}$
	B	$\frac{2s}{1-2s}$
	C	$\frac{s}{1-2s}$
	D	$2s - 1$

21.	$\frac{x}{3} - \frac{x^2 - 4}{6x}$ Nyatakan $\frac{x}{3} - \frac{x^2 - 4}{6x}$ dalam pecahan terendah. <i>Express $\frac{x}{3} - \frac{x^2 - 4}{6x}$ as a single fraction in its simplest form.</i>	
	A	$\frac{x^2 + 4}{6x}$
	B	$\frac{x^2 - 4}{6x}$
	C	$\frac{x - 4}{6x}$
	D	$\frac{x + 4}{6x}$

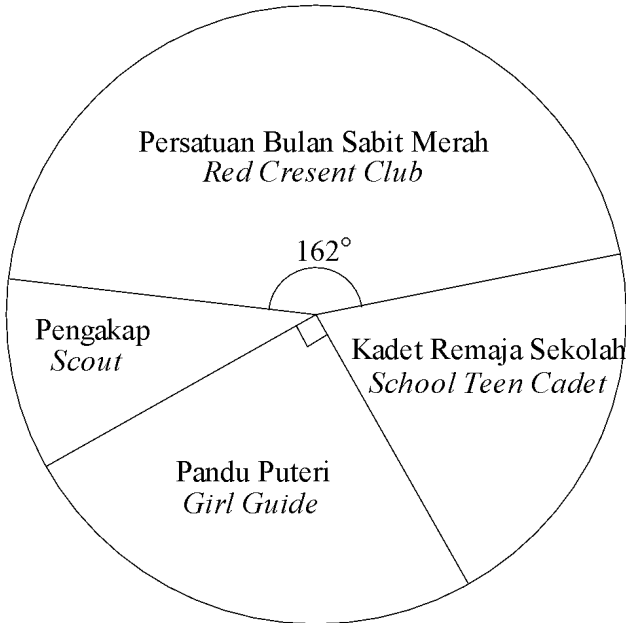
22.	Diberi $1 - p = \frac{2p+7}{5}$, cari nilai p. Given $1 - p = \frac{2p+7}{5}$, find the value of p.	
	A	$-\frac{2}{7}$
	B	$-\frac{2}{3}$
	C	$\frac{2}{7}$
	D	$\frac{2}{3}$

23.	Nilaikan $(2^{-9})^{\frac{2}{3}} \times (4 \times 6^{\frac{1}{2}})^4$ Evaluate $(2^{-9})^{\frac{2}{3}} \times (4 \times 6^{\frac{1}{2}})^4$	
	A	72
	B	48
	C	96
	D	144

24.	Sebatang jalan raya dilukis dengan panjangnya 5 cm di atas peta yang berskala 1 : 400 000. Hitung panjang sebenar jalan raya itu. <i>A road is drawn with its length 5 cm on a map with a scale 1 : 400 000. Calculate the true length of the road.</i>	
	A	5 km
	B	20 km
	C	50 km
	D	200 km

25.	Cari $4x + 5 \geq x + 2$ <i>Find the solution for $4x + 5 \geq x + 2$</i>	
	A	$x \geq -1$
	B	$x \leq -1$
	C	$x \geq -\frac{3}{5}$
	D	$x \leq -\frac{3}{5}$

26.	Maklumat berikut menunjukkan satu hujah <i>The following information shows an argument.</i>	
	Premis 1 : Jika $x + 3 = 5$ maka $x = 2$ <i>Premise 1 : If $x + 3 = 5$ then $x = 2$</i> Premis 2 : $x \neq 2$ <i>Premise 2 : $x \neq 2$</i> Kesimpulan : _____ <i>Conclusion : _____</i>	
	Apakah kesimpulan bagi hujah itu? <i>What is the conclusion to that argument</i>	
	A	$x + 3 = 5$
	B	$x + 3 \neq 5$
	C	$x = 2$
	D	$x > 2$

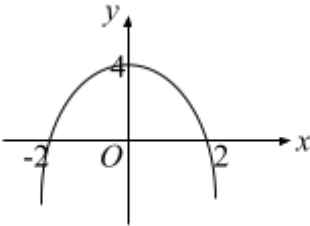
27.	Rajah 27 ialah carta pai yang menunjukkan komposisi keahlian untuk empat unit beruniform utama di sebuah sekolah. <i>Diagram 27 is a pie chart of composition of four major uniform clubs in a school.</i>	
		
	Rajah / Diagram 27	
	Bilangan ahli Kadet Remaja Sekolah adalah dua kali ganda ahli Pengakap. Hitungkan peratus keahlian Pengakap. <i>The number of members of School Teen Cadet is twice the number of members of Scout.</i> <i>Calculate the percentage of Scout.</i>	
	A	10
	B	20
	C	36
	D	72

28.	Rajah 28 menunjukkan satu set data. <i>Diagram 28 shows a set of data.</i>																							
	<table><tr><td>19</td><td>16</td><td>17</td><td>18</td><td>18</td><td>16</td><td>19</td><td>16</td></tr><tr><td>18</td><td>17</td><td>18</td><td>18</td><td>16</td><td>19</td><td>17</td><td>19</td></tr></table>								19	16	17	18	18	16	19	16	18	17	18	18	16	19	17	19
19	16	17	18	18	16	19	16																	
18	17	18	18	16	19	17	19																	
	Rajah / <i>Diagram</i> 28																							
	Cari mod bagi data itu. <i>Find the mode of the data</i>																							
	A	16																						
	B	17																						
	C	18																						
	D	19																						

29.	Rajah 29 menunjukkan satu set data. <i>Diagram 29 shows a set of data.</i>	
	3, 7, 5, 9, 4, 4, 8, 7, 6, 2, 5	
	Rajah / Diagram 29	
	Cari julat antara kuartil bagi set data itu. <i>Find the interquartile range of the set of data.</i>	
	A	2
	B	3
	C	5
	D	7

30.	Satu set 3 nombor mempunyai min 8 dan sisihan piawai $\sqrt{2}$. Hitung $\sum x^2$. <i>A set of 3 numbers has the mean 8 and the standard deviation $\sqrt{2}$.</i> Calculate $\sum x^2$	
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- A** 26
B 72
C 198
D 204

31.	Antara berikut, yang manakah merupakan fungsi bagi graf dalam rajah 31? <i>Which of the following is a function of the graph in diagram 31?</i>	
		
	Rajah / Diagram 31	
	A	$y = -x^2 + 4x + 4$
	B	$y = -x^2 - 4x - 4$
	C	$y = -x^2 - 4$

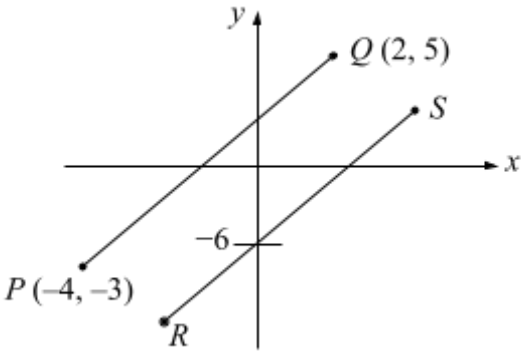
	D	$y = -x^2 + 4$
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32.	The Venn diagram in diagram 17 shows sets ξ, P, Q and R. <i>Rajah Venn dalam rajah 17 menunjukkan set ξ, P, Q dan R.</i>	
	Rajah / Diagram 32	
	The shaded region represents. <i>Ruang berlorek menunjukkan.</i>	
	A	$Q \cap R$
	B	$P' \cap R$
	C	$Q \cap R \cap P$
	D	$P' \cap Q \cup R$

33.	Rajah 33 menunjukkan gambar rajah Venn dengan set semesta, $\xi = P \cup Q \cup R$. <i>Diagram 33 shows a Venn diagram with the universal set, $\xi = P \cup Q \cup R$.</i>	
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	Rajah / Diagram 33
	Senaraikan semua elemen set Q' <i>List all the elements of set Q'</i>
A	$\{ 2, 8, 9 \}$
B	$\{ 2, 8, 9, 10 \}$
C	$\{ 2, 5, 6, 8, 9 \}$
D	$\{ 2, 5, 6, 8, 9, 10 \}$

34.	Faktorkan $x^2 - 8x + 15$ <i>Factorise $x^2 - 8x + 15$</i>
A	$(x - 3)(x - 5)$
B	$(x + 3)(x + 5)$
C	$(x + 15)(x - 1)$
D	$(x + 7)(x + 1)$

35.	Dalam Rajah 35, Garis lurus PQ adalah selari dengan RS . <i>In Diagram 35, Straight line PQ is parallel to straight line RS.</i>
	
	Rajah / Diagram 35

	Antara berikut, manakah persamaan bagi garis lurus RS . <i>Which of the following is the equation for the straight line RS.</i>	
	A	$y = -\frac{3}{4}x - 6$
	B	$y = \frac{3}{4}x - 6$
	C	$y = -\frac{4}{3}x - 6$
	D	$y = \frac{4}{3}x - 6$

36.	Sebuah balang mengandungi beberapa biji guli biru, guli hijau dan guli merah. Sebiji guli diambil secara rawak dari balang itu. Kebarangkalian mengambil guli biru dan guli hijau masing-masing ialah $\frac{3}{7}$ dan $\frac{5}{14}$. Hitung kebarangkalian mengambil guli merah. <i>A bowl contains some blue marbles, green marbles and red marbles. A marble is picked at random from the bowl. The probabilities of picking a blue marble and a green marble is $\frac{3}{7}$ and $\frac{5}{14}$ respectively. Calculate the probability of picking a red marble.</i>	
	A	$\frac{1}{7}$
	B	$\frac{2}{7}$
	C	$\frac{3}{14}$
	D	$\frac{5}{14}$

37.	Jadual 37 menunjukkan bilangan pesakit yang menerima rawatan di sebuah klinik dalam bulan Januari, Februari dan Mac. Diberi jumlah pesakit yang menerima rawatan dalam tiga bulan tersebut ialah 1000 orang. <i>Table 37 shows the number of patients who got treatments from a clinic in January, February and March. Given that the number of patients who got treatments in that three month is 1000.</i>										
	<table><tr><td>Bulan <i>Month</i></td><td>Januari <i>January</i></td><td>Februari <i>February</i></td><td>Mac <i>March</i></td></tr><tr><td>Bilangan pesakit <i>Number of patient</i></td><td>295</td><td>x</td><td>305</td></tr></table>			Bulan <i>Month</i>	Januari <i>January</i>	Februari <i>February</i>	Mac <i>March</i>	Bilangan pesakit <i>Number of patient</i>	295	x	305
Bulan <i>Month</i>	Januari <i>January</i>	Februari <i>February</i>	Mac <i>March</i>								
Bilangan pesakit <i>Number of patient</i>	295	x	305								
	Jadual / Table 37										
	Seorang pesakit dipilih secara rawak untuk menerima rawatan secara percuma. Cari kebarangkalian bahawa pesakit itu adalah pesakit yang telah menerima rawatan dalam bulan Februari. <i>A patient is chosen at random to get a free treatment. Find the probability that the patient is who got treatment in February.</i>										
	A	$\frac{1}{5}$									
	B	$\frac{2}{5}$									
	C	$\frac{3}{5}$									

	D	$\frac{4}{5}$
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38.	Diberi bahawa y berubah secara songsang dengan kuasa dua x apabila $y = 2$ and $x = 3$. Hitung nilai y apabila $x = 5$. <i>Given that y varies inversely as the square of with x and $y = 2$ when $x = 3$. Calculate the value of y when $x = 5$</i>	
	A	$\frac{18}{25}$
	B	$3\frac{3}{5}$
	C	40
	D	200

39.	$W \propto \frac{\sqrt{z}}{r}$ Hubungan di antara W , z dan r ialah $W \propto \frac{\sqrt{z}}{r}$. Diberi bahawa $W = 10$ apabila $z = 4$ dan $r = 2$. Hitung nilai W apabila $z = 9$ dan $r = 6$. $W \propto \frac{\sqrt{z}}{r}$ <i>The relation between W, z and r is $W \propto \frac{\sqrt{z}}{r}$. It is given that $W = 10$ when $z = 4$ and $r = 2$. Calculate the value of W when $z = 9$ and $r = 6$.</i>	
	A	24
	B	10
	C	5
	D	3

40.	$(1 \quad -3) \begin{pmatrix} -1 & 2 \\ 3 & -5 \end{pmatrix} =$	
	A	$(-10 \quad 17)$
	B	$(8 \quad 17)$
	C	$\begin{pmatrix} -10 \\ 17 \end{pmatrix}$
	D	$\begin{pmatrix} 8 \\ 17 \end{pmatrix}$

ALHAMDULILLAH.....

KERTAS SOALAN TAMAT
END OF QUESTION PAPER