

**SULIT**

NAMA

KELAS



**SEKOLAH MENENGAH KEBANGSAAN NAMA SEKOLAH  
PULAU PINANG**

**PEPERIKSAAN PERCUBAAN SPM TAHUN 2024 1449/1**  
**MATEMATIK TINGKATAN 5**  
**Kertas 1**  
**September**

$1\frac{1}{2}$  jam

Satu jam tiga puluh minit

**JANGAN BUKA KERTAS SOALAN INI SEHINGGA DIBERITAHU**

- 1. Kertas soalan ini adalah dalam dwibahasa.*
- 2. Soalan dalam bahasa Inggeris mendahului soalan yang sepadan dalam bahasa Melayu.*
- 3. Calon dikehendaki membaca maklumat di halaman 2 kertas soalan ini.*

Disediakan oleh :

Disemak oleh :

Disahkan oleh :

.....  
(Nama Guru Mata Pelajaran)  
Guru Matematik

.....  
(Nama Ketua Panitia)  
Ketua Panitia Matematik

.....  
(Nama GK/Ketua Bidang )  
Guru Kanan Sains &  
Matematik

Kertas ini mengandungi 18 halaman bercetak.

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**RUMUS MATEMATIK**  
**MATHEMATICAL FORMULAE**

Rumus - rumus berikut boleh membantu anda meniajawab soalan. Simbol - simbol yang diberi adalah yang biasa digunakan.

*The following formulae may be helpful in answering the questions. The symbols given are the ones commonly used.*

**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 $a^{m/n} = (a^m)^{1/n}$  |
| 5 Faedah mudah / <i>Simple interest</i> , $I = prt$                                     |                            |
| 6 Faedah kompaun / <i>Compound interest</i> , $MV = P\left(1 + \frac{r}{n}\right)^{nt}$ |                            |
| 7 Jumlah bayaran balik / <i>Total repayment</i> , $A = P + Prt$                         |                            |

**PERKAITAN DAN ALGEBRA**  
**RELATIONSHIP AND ALGEBRA**

- 1 Jarak / *Distance* =  $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
- 2 Titik tengah / *Midpoint*,  $(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$
- 3 Laju purata =  $\frac{\text{Jumlah jarak}}{\text{Jumlah masa}}$   
*Average speed* =  $\frac{\text{Total distance}}{\text{Total time}}$
- 4  $m = \frac{y_2 - y_1}{x_2 - x_1}$
- 5  $m = -\frac{\text{pintasan-y}}{\text{pintasan-x}}$   
 $m = -\frac{\text{y-intercept}}{\text{x-intercept}}$
- 6  $A^{-1} = \frac{1}{ad - bc} \begin{pmatrix} d & -b \\ -c & a \end{pmatrix}$

**SUKATAN DAN GEOMETRI**  
**MEASUREMENT AND GEOMETRY**

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

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- 14 Isi padu kon =  $\frac{1}{3}\pi r^2 t$   
*Volume of cone* =  $\frac{1}{3}\pi r^2 h$
- 15 Isi padu sfera =  $\frac{4}{3}\pi r^3$   
*Volume of sphere* =  $\frac{4}{3}\pi r^3$
- 16 Isi padu piramid =  $\frac{1}{3} \times$  luas tapak  $\times$  tinggi  
*Area of pyramid* =  $\frac{1}{3} \times$  base area  $\times$  height
- 17 Faktor skala,  $k = \frac{PA'}{PA}$   
*Scale factor*,  $k = \frac{PA'}{PA}$
- 18 Luas imej =  $k^2 \times$  luas objek  
*Area of image* =  $k^2 \times$  area of object

**STATISTIK DAN KEBARANGKALIAN**  
**STATISTICS AND PROBABILITY**

- 1 Min / Mean,  $\bar{x} = \frac{\sum x}{N}$
- 2 Min / Mean,  $\bar{x} = \frac{\sum fx}{\sum f}$
- 3 Varians / Variance,  $\sigma^2 = \frac{\sum(x - \bar{x})^2}{N} = \frac{\sum x^2}{N} - \bar{x}^2$
- 4 Varians / Variance,  $\sigma^2 = \frac{\sum f(x - \bar{x})^2}{\sum f} = \frac{\sum fx^2}{\sum f} - \bar{x}^2$
- 5 Sisihan piawai / Standard deviation,  $\sigma = \sqrt{\frac{\sum(x - \bar{x})^2}{N}} = \sqrt{\frac{\sum x^2}{N} - \bar{x}^2}$
- 6 Sisihan piawai / Standard deviation,  $\sigma = \sqrt{\frac{\sum f(x - \bar{x})^2}{\sum f}} = \sqrt{\frac{\sum fx^2}{\sum f} - \bar{x}^2}$
- 7  $P(A) = \frac{n(A)}{n(S)}$

Jawab **semua** soalan.

Answer *all* questions.

1. Diberi  $a^m \times a^n = b^m \times b^n$ . Antara yang berikut, yang manakah benar?

Given  $a^m \times a^n = b^m \times b^n$ . Which of the following is true?

A  $a \neq b$

B  $a = b$

C  $a = m$

D  $a = n$

2. Rajah 1 menunjukkan suatu jujukan nombor.

Diagram 1 shows a number sequence.



Rajah 1  
Diagram 1

Nyatakan pola bagi jujukan itu.

State the pattern of the sequence.

A Menambah  $\frac{3}{8}$

B Menambah  $\frac{1}{2}$

Add  $\frac{3}{8}$

Add  $\frac{1}{2}$

C Mendarab  $\frac{1}{2}$

D Mendarab  $\frac{3}{2}$

Multiply  $\frac{1}{2}$

Multiply  $\frac{3}{2}$

3. Gandaan sepunya terkecil boleh dikenal pasti melalui kaedah yang berikut **kecuali**

Lowest common multiple can be determined by using the following method **except**

A menyenaraikan gandaan sepunya  
*listing the common multiples*

B pembahagian berulang  
*repeated division*

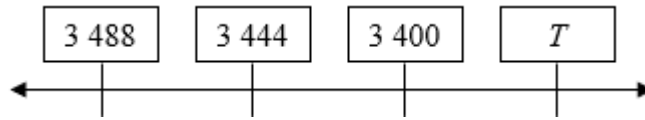
C pemfaktoran  
*factorisation*

D pemfaktoran perdana  
*prime factorisation*

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4. Rajah 2 menunjukkan suatu garis nombor.

Diagram 2 shows a number line.



Rajah 2  
Diagram 2

Cari nilai bagi  $T$  dalam bentuk piawai tepat kepada tiga angka bererti.

Find the value of  $T$  in standard form correct to three significant figures.

- A  $3.35 \times 10^3$     B  $33.5 \times 10^2$   
C  $3.36 \times 10^3$     D  $33.6 \times 10^2$
5. Firdaus membuat simpanan RM 10 500 ke dalam akaun simpanan dengan kadar faedah 3.2% setahun dan dikompaunkan setiap suku tahun. Hitung jumlah simpanannya selepas tiga tahun.  
Firdaus saves RM 10 500 in the savings account with an interest rate of 3.2% per annum and compounded quarterly. Calculate his total savings after 3 years.
- A RM 11 553.56    B RM 16 502.99  
C RM 16 505.08    D RM 26 440.79
6. Antara berikut yang manakah jenis insurans am?  
Which of the following are the type of general insurance?

I	Insurans Hayat / Life insurance
II	Insurans perjalanan / Travel insurance
III	Insurans kebakaran / Fire insurance
IV	Insurans berkelompok / Group insurance

Jadual 1  
Table 1

- A I dan II    B II dan III  
I and II    II and III  
C II dan IV    D III dan IV  
II and IV    III and IV





10. Dua matriks boleh didarab sekiranya  
*Two matrices can be multiplied if*
- A bilangan lajur matriks pertama dan matriks kedua adalah sama.  
*the number of columns for the first matrix and the second matrix is equal.*
- B bilangan lajur matriks pertama dan baris matriks kedua adalah sama.  
*the number of columns for the first matrix and rows for the second matrix is equal.*
- C bilangan baris matriks pertama dan matriks kedua adalah sama.  
*the number of rows for the first matrix and the second matrix is equal.*
- D bilangan baris matriks pertama dan lajur matriks kedua adalah sama.  
*the number of rows for the first matrix and columns for the second matrix is equal.*
11. Suatu garis lurus mempunyai persamaan  $3x + 4y + 7 = 0$ . Pilih persamaan yang setara dalam bentuk pintasan.  
*A straight line has the equation  $3x + 4y + 7 = 0$ . Choose the equivalent equation in the intercept form.*
- A  $-\frac{3}{7}x - \frac{4}{7}x = -1$
- B  $-\frac{3}{7}x + \frac{4}{7}x = -1$
- C  $-\frac{3}{7}x - \frac{4}{7}x = 1$
- D  $-\frac{3}{7}x + \frac{4}{7}x = 1$
12. Kerajaan negeri bertanggungjawab memungut hasil daripada sektor-sektor yang berikut **kecuali**  
*The state government is responsible for collecting revenue from the following sectors except*
- A pertanian  
*agriculture*
- B perlombongan  
*mining*
- C perhutanan  
*Forestry*
- D majlis perbandaran  
*city council*

13. Jadual 3 menunjukkan pergerakan sebuah objek.

*Table 3 shows movements of an object.*

Tempoh <i>Duration</i>	Keterangan <i>Statement</i>
4 saat pertama <i>The first 4 seconds</i>	Laju malar <i>Uniform speed</i>
2 saat berikutnya <i>The next 2 seconds</i>	Laju dua kali ganda <i>Double the speed</i>

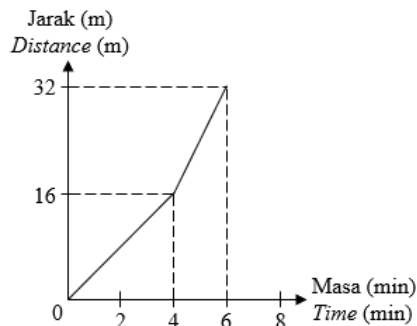
Jadual 3

*Table 3*

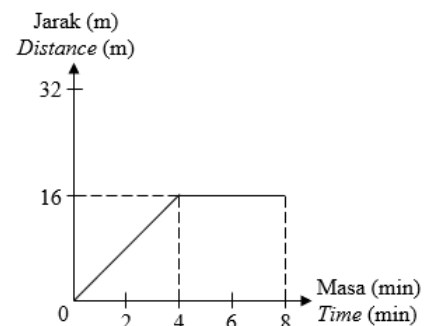
Jika jarak yang dilalui oleh objek dalam masa 4 saat pertama ialah 16 meter, graf jarak-masa yang manakah mewakili maklumat itu?

*If the distance travelled by the object in the first 4 seconds is 16 meters, which distance-time graph represents the information?*

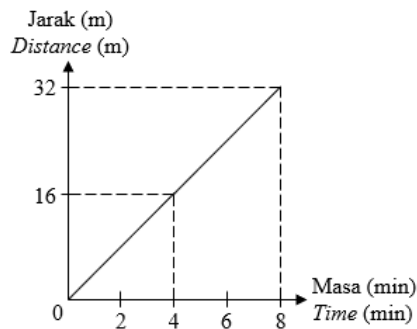
A



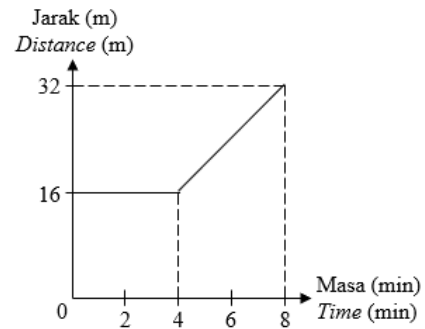
B



C



D



14. Hitung jumlah luas permukaan tangki air berbentuk kubus dengan isi padu  $125\text{m}^3$ .

*Calculate the total surface area of a cube-shaped water tank with a volume of  $125\text{m}^3$ .*

A  $100\text{m}^2$   
C  $200\text{m}^2$

B  $150\text{m}^2$   
D  $250\text{m}^2$

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15. Sulaiman mempunyai sekeping coklat berukuran  $(k^2 - 16)$  cm panjang. Dia membahagikan coklat tersebut kepada rakan-rakannya seramai  $(k - 4)$  orang. Berapakah ukuran panjang coklat yang akan diterima oleh setiap rakannya?

*Sulaiman has a piece of chocolate measuring  $(k^2 - 16)$  cm in length. He distributed the chocolate to his friends as many as  $(k - 4)$  people. What is the length of chocolate will each friend receive?*

- A  $(k - 16)$  cm                      B  $(k - 4)$  cm  
C  $(k - 2)$  cm                        D  $(k + 4)$  cm

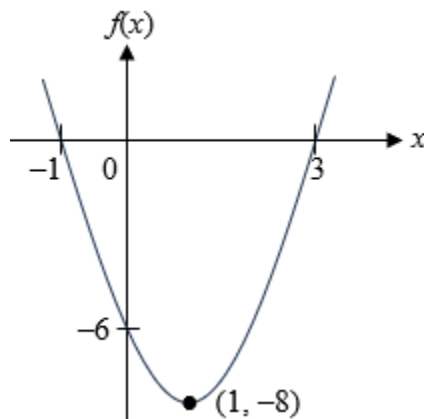
16. Panjang sebuah bilik dalam lukisan pelan rumah ialah 2 cm. Jika panjang sebenar bilik tersebut ialah 4 m, nyatakan faktor skala pelan tersebut.

*The length of a room in a house plan drawing is 2 cm. If the actual length of the room is 4 m, state the scale factor of the plan.*

- A  $\frac{1}{50}$                                       B  $\frac{1}{100}$   
C  $\frac{1}{200}$                                       D  $\frac{1}{400}$

17. Ungkapkan fungsi kuadratik bagi lakaran graf fungsi berikut.

*Express the quadratic function of the graph of the following function.*



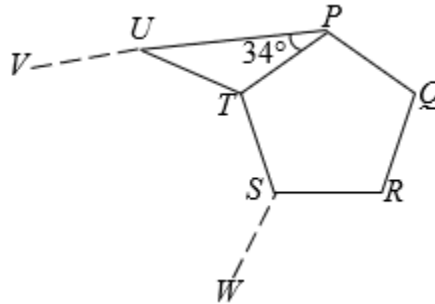
Rajah 3  
Diagram 3

- A  $f(x) = 2x^2 + 4x - 1$                       B  $f(x) = 2x^2 + 3x - 1$   
C  $f(x) = 2x^2 - x + 3$                       D  $f(x) = 2x^2 - 4x - 6$



20. Rajah 6 menunjukkan sebuah pentagon sekata  $PQRST$  dan sebuah segi tiga sama kaki  $PTU$ .  $WRSTUV$  ialah sebahagian daripada sebuah poligon sekata.

*Diagram 6 shows a regular pentagon  $PQRST$  and an isosceles triangle  $PTU$ .  $WRSTUV$  is a part of a regular polygon.*

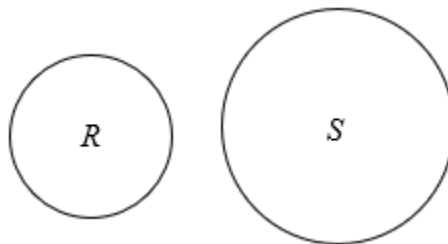


Rajah 6  
Diagram 6

Cari bilangan sisi bagi poligon sekata yang tidak lengkap itu.

*Find the number of sides of the incomplete regular polygon.*

- A 8  
B 9  
C 10  
D 11
21. Rajah 5 menunjukkan dua buah bulatan,  $R$  dan  $S$  yang dilukis dengan skala  $1 : m$ .  
*Diagram 5 shows two circles,  $R$  and  $S$  drawn with the scale  $1 : m$ .*



Rajah 5  
Diagram 5

Diberi luas bulatan  $R$  dan bulatan  $S$ , masing-masing ialah  $241 \text{ cm}^2$  dan  $2169 \text{ cm}^2$ .  
Hitung nilai  $m$ .

*Given the area of circle  $R$  and  $S$  is  $241 \text{ cm}^2$  and  $2169 \text{ cm}^2$  respectively.  
Calculate the value of  $m$ .*

- A  $\frac{1}{9}$   
B  $\frac{1}{3}$   
C 3  
D 9

22. Farid mempunyai satu set nombor iaitu  $\{2, 4, 6, 8\}$ . Dia ingin mengetahui berapakah bilangan subset yang boleh dihasilkan daripada set tersebut.

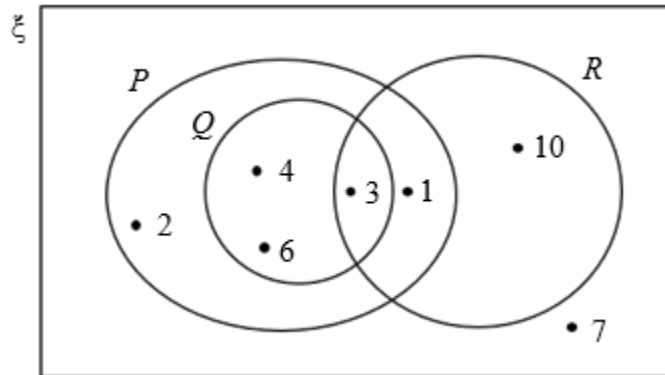
*Farid has a set of numbers which are  $\{2, 4, 6, 8\}$ . He wants to know how many subsets can be produced from the set.*

Berapakah bilangan subset bagi set nombor Farid?

*How many subsets of Farid's set of numbers?*

- |          |    |          |    |
|----------|----|----------|----|
| <b>A</b> | 4  | <b>B</b> | 8  |
| <b>C</b> | 16 | <b>D</b> | 24 |

23. Rajah 6 menunjukkan sebuah gambar rajah Venn dengan set  $P$ ,  $Q$  dan  $R$  di dalamnya.  
*Diagram 6 shows a Venn diagram with sets  $P$ ,  $Q$  and  $R$  in it.*



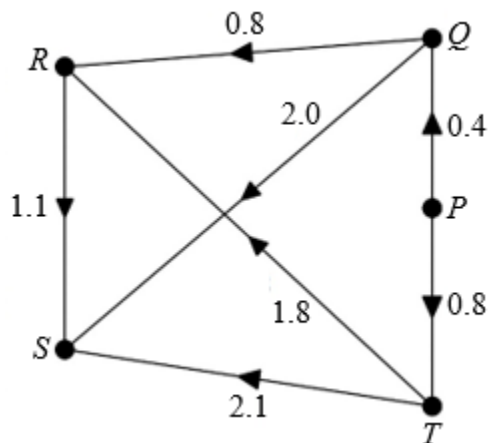
Rajah 6  
Diagram 6

Antara berikut, yang manakah PALSU tentang gambar rajah Venn tersebut.

*Which of the following is FALSE about the Venn diagram.*

- |          |               |          |                    |
|----------|---------------|----------|--------------------|
| <b>A</b> | $n(Q') = 5$   | <b>B</b> | $P' = \{7, 10\}$   |
| <b>C</b> | $Q \subset P$ | <b>D</b> | $Q \cap R = \{3\}$ |

24. Rajah 7 menunjukkan graf terarah dari rumah Ameera di  $P$ , ke pejabatnya di  $S$ .  
*Diagram 7 shows a directed graph from Ameera's house at  $P$ , to his office at  $S$ .*



Rajah 7  
*Diagram 7*

Tentukan laluan terbaik yang dipilih oleh Ameera untuk ke pejabat dengan mengambil kira jarak terpendek.

*Determine the best route chosen by Ameera to go to her office by taking the shortest distance.*

- |  |  |
|--|--|
| <b>A</b> $P \rightarrow Q \rightarrow S$               | <b>B</b> $P \rightarrow T \rightarrow S$               |
| <b>C</b> $P \rightarrow Q \rightarrow R \rightarrow S$ | <b>D</b> $P \rightarrow T \rightarrow R \rightarrow S$ |
25. Jadual 4 menunjukkan wang saku bagi sekumpulan murid.  
*Table 4 shows the pocket money for a group of pupils.*

Wang Saku (RM) <i>Pocket Money (RM)</i>	2	3	4	5	6
Kekerapan <i>Frequency</i>	4	6	8	$x$	5

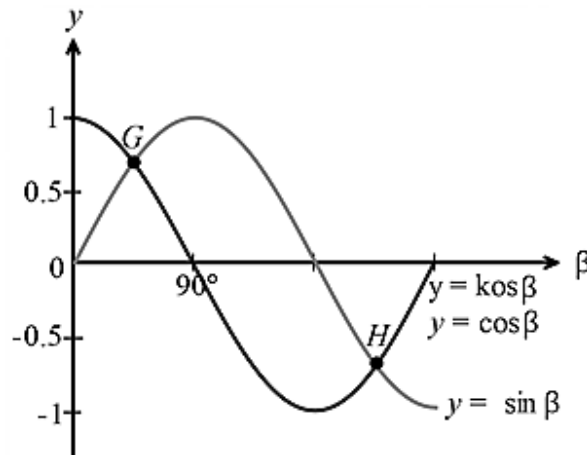
Jadual 4  
*Diagram 4*

Diberi mod ialah RM 4, tentukan nilai maksimum bagi  $x$ .

*Given the mode is RM 4, specify the maximum value of  $x$ .*

- |            |            |
|------------|------------|
| <b>A</b> 7 | <b>B</b> 6 |
| <b>C</b> 5 | <b>D</b> 4 |

26. Rajah 8 menunjukkan graf  $y = \sin \beta$  dan  $y = \cos \alpha$ .  
Diagram 8 shows the graphs of  $y = \sin \beta$  and  $y = \cos \alpha$ .



Rajah 8  
Diagram 8

Titik  $G$  dan titik  $H$  masing-masing adalah titik persilangan bagi kedua-dua graf tersebut. Nyatakan koordinat bagi titik  $G$  dan titik  $H$ .

*Points  $G$  and point  $H$  are the intersection points for both graphs respectively. States the coordinates for point  $G$  and point  $H$ .*

- A  $G(25^\circ, 0.9063), H(205^\circ, -0.9063)$   
 B  $G(30^\circ, 0.8660), H(210^\circ, -0.8660)$   
 C  $G(45^\circ, 0.7071), H(225^\circ, -0.7071)$   
 D  $G(50^\circ, 0.7660), H(230^\circ, -0.7660)$
27. Sarah ingin membeli  $x$  buah buku tulis dan  $y$  buah buku lukisan. Sebuah buku tulis dan sebuah buku lukisan masing-masing berharga RM 3 dan RM 7. Dia ingin berbelanja tidak melebihi wangnya yang berjumlah RM 30 dan mempunyai baki wang selebih-lebihnya RM 4. Dia juga memerlukan sekurang-kurangnya dua buah buku lukisan. Nyatakan sistem ketaksamaan linear bagi situasi tersebut.

*Sarah wants to buy  $x$  notebooks and  $y$  drawing books. The prices of a notebook and a drawing book are RM 3 and RM 7 respectively. She wants to spend of not more than her amount of money, which is RM 30 and has the balance of at most RM 4. She also needs at least two drawing books. State the system of linear inequalities for the situation.*

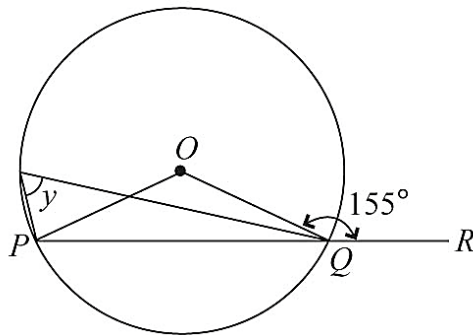
- |  |  |
|--|--|
| <p>A <math>3x + 7y \leq 30</math><br/> <math>3x + 7y \geq 4</math><br/> <math>y \leq 2</math></p>  | <p>B <math>3x + 7y \leq 30</math><br/> <math>3x + 7y \geq 26</math><br/> <math>y \geq 2</math></p> |
| <p>C <math>3x + 7y \leq 30</math><br/> <math>3x + 7y \leq 26</math><br/> <math>y \geq 2</math></p> | <p>D <math>3x + 7y &lt; 30</math><br/> <math>3x + 7y &gt; 26</math><br/> <math>y \geq 2</math></p> |

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30. Rajah 10 menunjukkan sebuah bulatan berpusat  $O$  dan satu garis lurus  $PQR$ .  
*Diagram 10 shows a circle with centre  $O$  and a straight line  $PQR$ .*

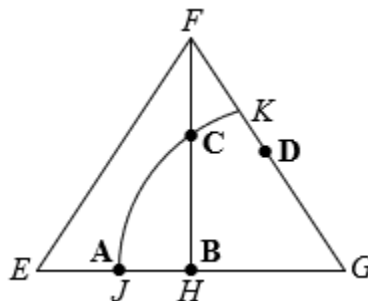


Rajah 10  
 Diagram 10

Cari nilai  $y$ .

*Find the value of  $y$ .*

- |          |            |          |            |
|----------|------------|----------|------------|
| <b>A</b> | $25^\circ$ | <b>B</b> | $45^\circ$ |
| <b>C</b> | $55^\circ$ | <b>D</b> | $65^\circ$ |
31. Rajah 11 menunjukkan sebuah segi tiga sama yang bersisi 5 cm.  $JGK$  ialah satu lengkok bulatan berpusat di  $G$ .  
*Diagram 11 shows an equilateral triangle with sides 5 cm.  $JGK$  is an arc of a circle at centre  $G$ .*



Rajah 11  
 Diagram 11

Antara titik-titik, **A**, **B**, **C**, dan **D**, manakah sama jarak dari  $E$  dan  $G$  dan tidak melebihi 3 cm daripada  $F$ ?

*Which of the points, **A**, **B**, **C** and **D** is equidistant from  $E$  and  $G$  and not more than 3 cm from  $F$ ?*

32. Jadual 6 menunjukkan pencapaian 4 orang murid dalam Kuiz Kimia yang dijalankan pada minggu lepas.

*Table 6 shows the achievements of 4 students in a Chemistry Quiz conducted last week.*

	Ujian 1 <i>Test 1</i>	Ujian 2 <i>Test 2</i>	Ujian 3 <i>Test 3</i>	Ujian 4 <i>Test 4</i>	Ujian 5 <i>Test 5</i>
Azrina	40	70	90	85	64
Faizal	80	65	73	58	73
Chew Ting	45	65	100	75	64
Pravin	70	65	78	53	83

Jadual 6  
Diagram 6

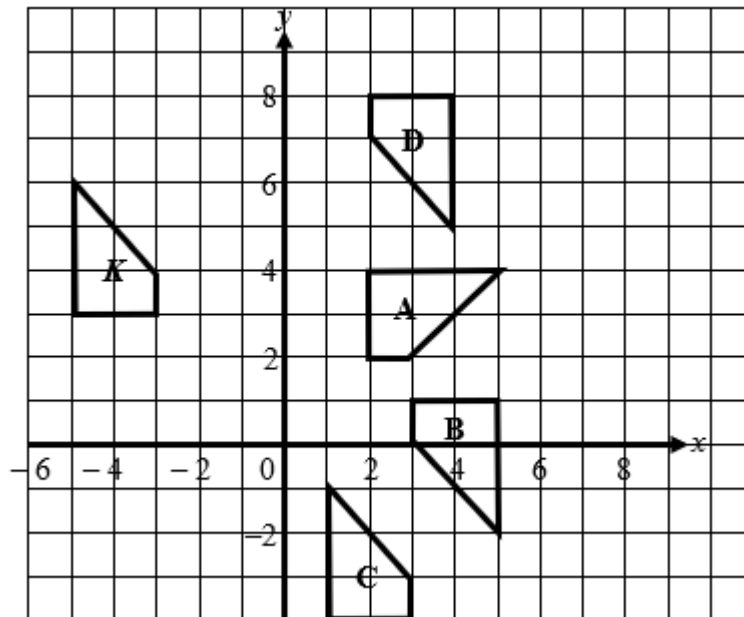
Salah seorang murid akan dipilih untuk mewakili sekolah dalam Pertandingan Kuiz Kimia pada dua minggu akan datang. Tentukan siapakah yang layak dipilih.

*One of the students will be selected to represent the school in the Chemistry Quiz Competition in the next two weeks. Determine who is eligible to be selected.*

- A Azrina
- B Faizal
- C Chew Ting
- D Pravin

33. Antara berikut yang manakah imej bagi trapezium *K* di bawah satu putaran 180° pada pusat (0, 2)?

*Which of the following is the image of trapezium K under a rotation 180° at centre (0, 2)?*

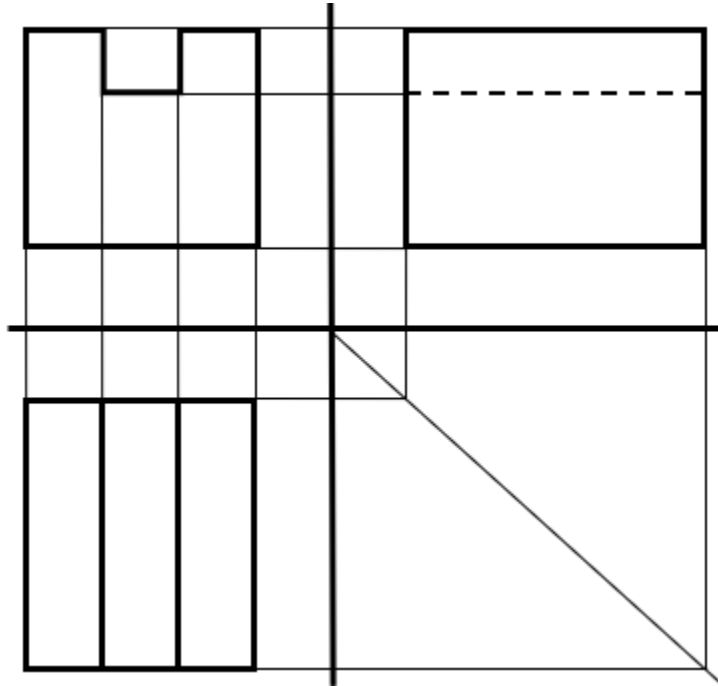


Rajah 12  
Diagram 12



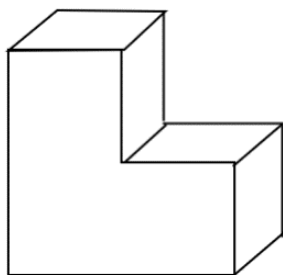
36. Rajah 13 menunjukkan pelan, dongakan depan dan dongakan sisi bagi gabungan sebuah kuboid dan prisma tegak. Yang manakah gabungan objek tersebut?

*Diagram 13 below shows the plan, front elevation and side elevation of a combination of a cuboid and a right prism. Which is the combination of objects?*

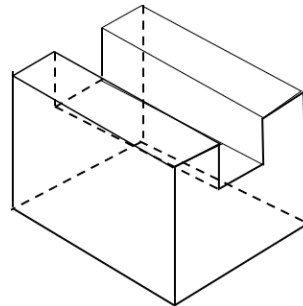


Rajah 13  
Diagram 13

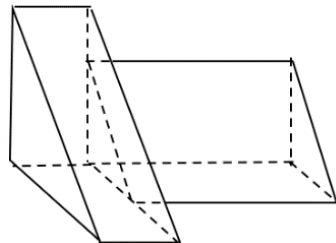
A



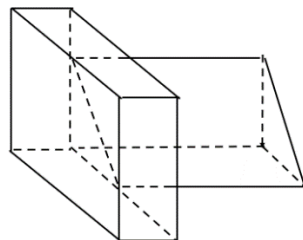
B



C



D



37. Sebuah bakul mengandungi bola biru dan bola hijau. Sebiji bola dipilih secara rawak daripada bakul itu. Kebarangkalian memilih sebiji bola biru ialah  $\frac{5}{17}$ . Jika terdapat 60 biji bola hijau dalam bakul tersebut, berapa biji bola biru ada dalam bakul itu?  
*A basket contains blue balls and green balls. A ball is randomly selected from the basket. The probability of picking a blue ball is  $\frac{5}{17}$ . If there are 60 green balls in the basket, how many blue balls are in the basket?*

- A 85  
 B 65  
 C 45  
 D 25

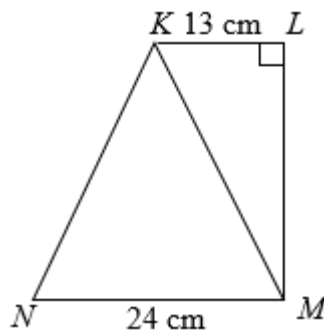
38. Diberi  $Q = 7m - 9$ . Antara berikut, yang manakah mengungkapkan  $m$  sebagai perkara rumus dengan betul?

*Given  $Q = 7m - 9$ . Which of the following express  $m$  as the subject of formula correctly?*

- A  $m = \frac{Q+9}{7}$   
 B  $m = \frac{Q-9}{7}$   
 C  $m = Q + \frac{9}{7}$   
 D  $m = Q - \frac{9}{7}$

39. Rajah 14 menunjukkan dua buah segi tiga,  $KLM$  dan  $KMN$ . Garis lurus  $KL$  dan  $MN$  adalah selari.

*Diagram 14 shows two triangles,  $KLM$  and  $KMN$ . Straight lines  $KL$  and  $MN$  are parallel.*



Rajah 14  
 Diagram 14

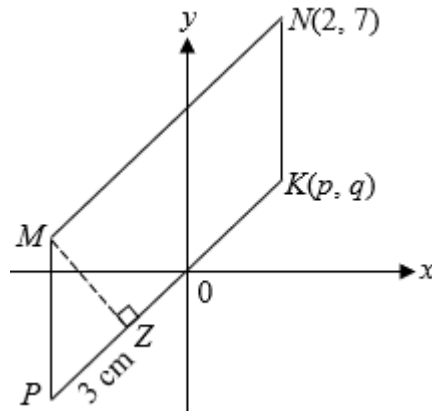
Luas segi tiga  $KLM$  ialah  $39 \text{ cm}^2$ . Hitungkan luas bagi seluruh rajah, dalam  $\text{cm}^2$ .  
*The area of triangle  $KLM$  is  $39 \text{ cm}^2$ . Calculate the area of whole diagram, in  $\text{cm}^2$ .*

- A 63  
 B 72  
 C 111  
 D 312

Lihat halaman sebelah  
 SULIT

40. Rajah 15 menunjukkan sebuah segi empat selari  $KNMP$ .  $MP$  dan  $NK$  selari dengan paksi- $y$ . Diberi jarak bagi  $MZ$  ialah 4 unit.

*Diagram 15 above shows a parallelogram  $KNMP$ .  $MP$  and  $NK$  are parallel to the  $y$ -axis. Given the distance for  $MZ$  is 4 units.*



Rajah 15  
Diagram 15

Cari koordinat  $K$ .

*Find coordinates of  $K$ .*

- |          |        |          |        |
|----------|--------|----------|--------|
| <b>A</b> | (0, 2) | <b>B</b> | (2, 2) |
| <b>C</b> | (2, 3) | <b>D</b> | (3, 2) |

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

