

**SULIT**

**1449/1**

**1449/1**

**MATEMATIK**

**Kertas 1**

**Mei**

**2011**

$1\frac{1}{4}$  jam



**BAHAGIAN PENGURUSAN  
SEKOLAH BERASRAMA PENUH DAN SEKOLAH KECEMERLANGAN  
KEMENTERIAN PELAJARAN MALAYSIA**

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**PEPERIKSAAN PERTENGAHAN TAHUN  
TINGKATAN 5 2011**

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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 adalah dalam dwibahasa.*
2. *Soalan dalam bahasa Inggeris mendahului soalan yang sepadan dalam bahasa Bahasa Melayu.*
3. *Calon dikehendaki membaca maklumat di halaman 2.*

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Kertas soalan ini mengandungi 26 halaman bercetak.

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

**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 =  $\pi d = 2\pi r$*
- 3 Area of circle =  $\pi r^2$   
*Luas bulatan =  $\pi r^2$*
- 4 Curved surface area of cylinder =  $2\pi r h$   
*Luas permukaan melengkung silinder =  $2\pi r h$*
- 5 Surface area of sphere =  $4\pi r^2$   
*Luas permukaan sfera =  $4\pi r^2$*
- 6 Volume of right prism = cross sectional area  $\times$  length  
*Isipadu prisma tegak = luas keratan rentas  $\times$  panjang*
- 7 Volume of cylinder =  $\pi r^2 h$   
*Isipadu silinder =  $\pi r^2 h$*
- 8 Volume of cone =  $\frac{1}{3} \pi r^2 h$   
*Isipadu kon =  $\frac{1}{3} \pi r^2 h$*
- 9 Volume of sphere =  $\frac{4}{3} \pi r^3$   
*Isipadu sfera =  $\frac{4}{3} \pi r^3$*
- 10 Volume of right pyramid =  $\frac{1}{3} \times \text{base area} \times \text{height}$   
*Isipadu piramid tegak =  $\frac{1}{3} \times \text{luas tapak} \times \text{tinggi}$*

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- 11 Sum of interior angles of a polygon =  $(n - 2) \times 180^\circ$   
*Hasil tambah sudut pedalaman poligon =  $(n - 2) \times 180^\circ$*
- 12 
$$\frac{\text{arc length}}{\text{circumference of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$
 *$\frac{\text{panjang lengkok}}{\text{lilitan bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$*
- 13 
$$\frac{\text{area of sector}}{\text{area of circle}} = \frac{\text{angle subtended at centre}}{360^\circ}$$
 *$\frac{\text{luas sektor}}{\text{luas bulatan}} = \frac{\text{sudut pusat}}{360^\circ}$*
- 14 Scale factor ,  $k = \frac{PA'}{PA}$   
*Faktor skala ,  $k = \frac{PA'}{PA}$*
- 15 Area of image =  $k^2 \times$  area of object  
*Luas imej =  $k^2 \times$  luas objek*

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- 1 Round off 71 971 correct to three significant figures.

*Bundarkan 71 971 betul kepada tiga angka bererti.*

- A 719
- B 720
- C 71 900
- D 72 000

- 2  $5.43 \times 10^6 - 9.68 \times 10^5 =$

- A  $4.25 \times 10^6$
- B  $4.462 \times 10^6$
- C  $4.25 \times 10^5$
- D  $4.462 \times 10^5$

- 3  $\frac{0.00056}{7 \times 10^{-2}} =$

- A  $8 \times 10^{-13}$
- B  $8 \times 10^{-3}$
- C  $8 \times 10^3$
- D  $8 \times 10^{-13}$

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- 4 Diagram 4 shows a rectangle with width of 2.4 km and length 3.6 km. The shaded area represent 37.5% of the total area.

Find the value of  $x$ .

*Rajah 4 menunjukkan sebuah segiempat tepat berukuran 2.4 km lebar dan 3.6 km panjang. Luas kawasan berlorek mewakili 37.5% daripada luas keseluruhan.*

*Cari nilai  $x$ .*

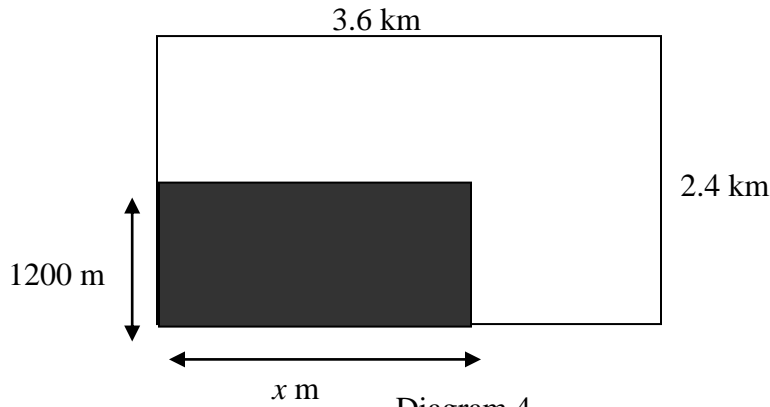


Diagram 4  
Rajah 4

- A  $1.35 \times 10^3$   
 B  $1.35 \times 10^6$   
 C  $2.7 \times 10^3$   
 D  $2.7 \times 10^6$
- 5 Express  $1100110_2$  as a number in base eight.  
 Ungkapkan  $1100110_2$  sebagai nombor dalam asas lapan.

- A  $145_8$   
 B  $146_8$   
 C  $147_8$   
 D  $148_8$

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6  $11010_2 - 111_2 =$

- A  $10011_2$
- B  $10101_2$
- C  $11011_2$
- D  $11101_2$

7 In Diagram 7,  $PQRST$  and  $PJKLMT$  are regular pentagon and hexagon.

*Dalam Rajah 7,  $PQRST$  dan  $PJKLMT$  adalah pentagon dan heksagon sekata.*

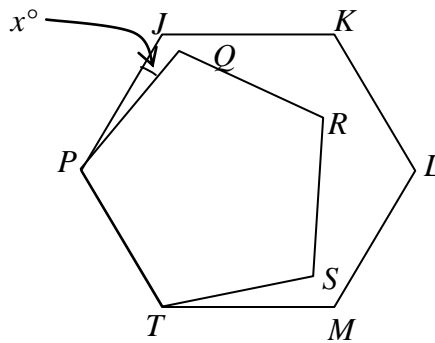


Diagram 7  
Rajah 7

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

- A 12
- B 36
- C 48
- D 72

- 8 In Diagram 8,  $IJKLMF$  is a regular hexagon and  $MGHI$  is a parallelogram.  $GFM$  is a straight line.

*Dalam Rajah 8,  $IJKLMF$  adalah heksagon sekata dan  $MGHI$  adalah segi empat selari.  $GFM$  adalah garis lurus.*

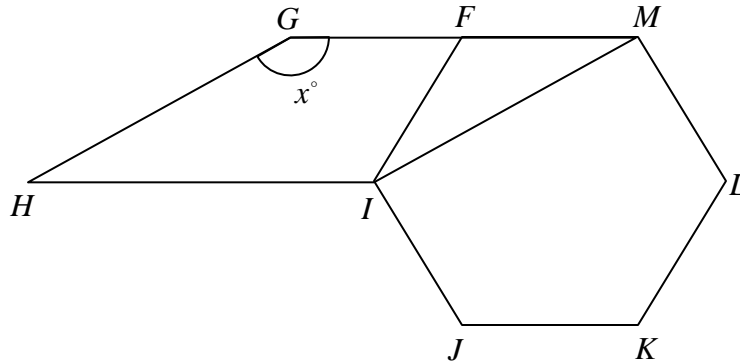


Diagram 7  
Rajah 7

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

- A 108
- B 120
- C 150
- D 180



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- 9** In Diagram 9,  $PQR$  is a tangent to the circle  $QST$  at  $Q$ .  $QS$  is diameter of the circle.  
 Dalam Rajah 9,  $PQR$  ialah tangen kepada bulatan  $QST$  di  $Q$ .  $QS$  ialah diameter bulatan tersebut.

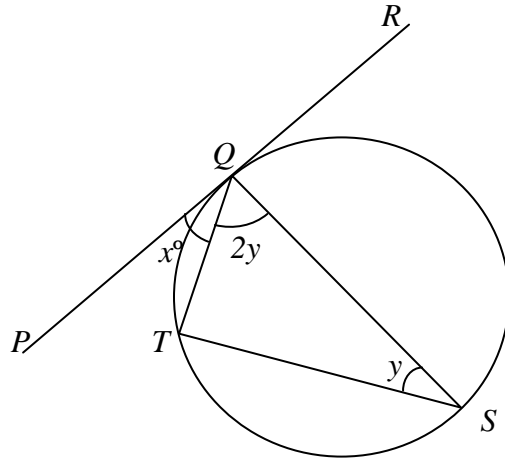


Diagram 9  
Rajah 9

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

- A  $15^\circ$
- B  $30^\circ$
- C  $45^\circ$
- D  $60^\circ$

- 10 Diagram 10 shows five pentagons drawn on square grid.  
*Rajah 10 menunjukkan lima pentagon dilukis pada grid segi empat sama.*

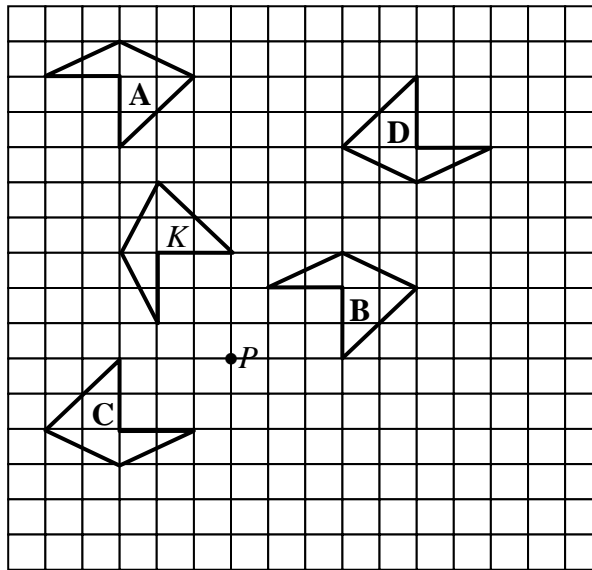


Diagram 10  
*Rajah 10*

Which of the pentagon, **A**, **B**, **C** or **D** is the image of pentagon **K** under a clockwise rotation of  $90^\circ$  at center **P**.

*Pentagon manakah, **A**, **B**, **C** atau **D** ialah imej bagi pentagon **K** di bawah putaran  $90^\circ$  ikut arah jam pada pusat **P**.*

- 11 In Diagram 11, quadrilateral  $PQRS$  is the image of quadrilateral  $JKLM$  under an enlargement.

Dalam Rajah 11, sisi empat  $PQRS$  ialah imej bagi sisi empat  $JKLM$  d bawah suatu pembesaran.

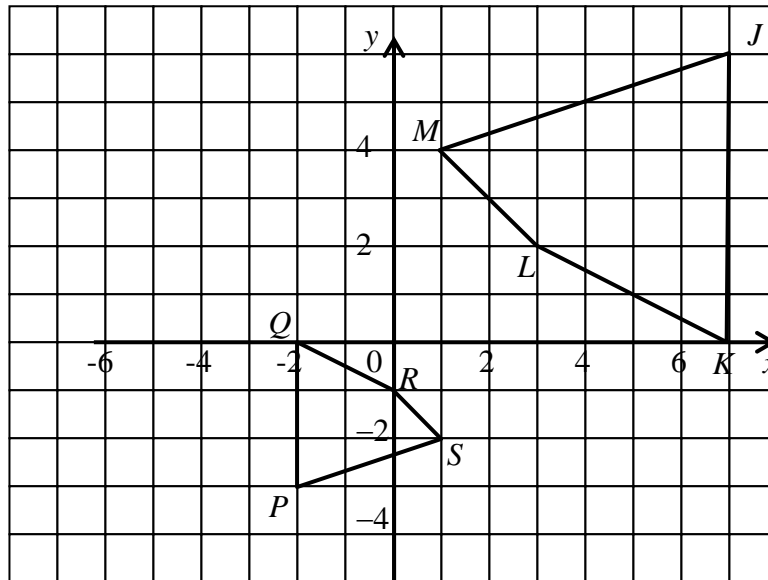


Diagram 11  
Rajah 11

Find the scale factor of the enlargement.

Carikan faktor skala pembesaran tersebut.

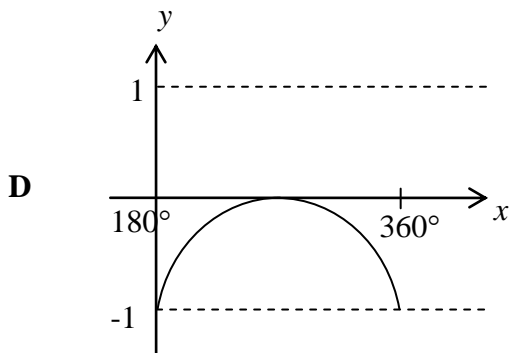
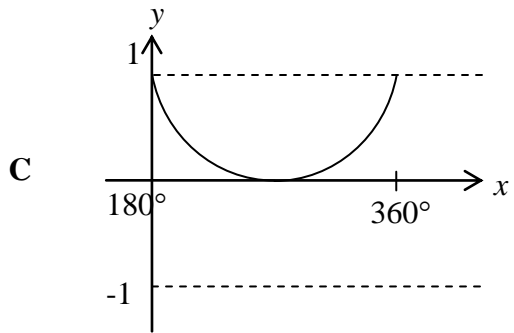
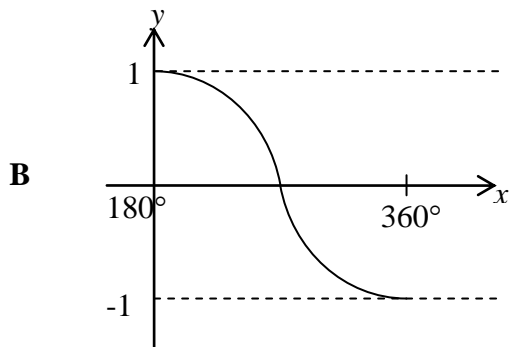
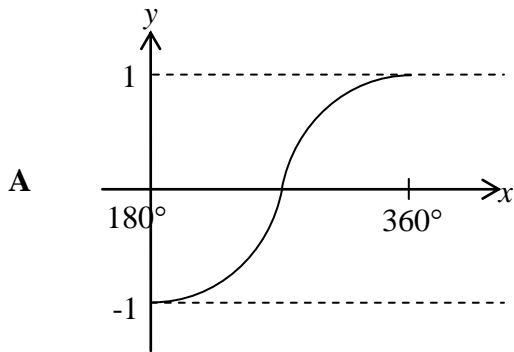
- A 2
- B  $\frac{1}{2}$
- C  $-\frac{1}{2}$
- D -2

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12 Which of the following graphs represents  $y = \cos x$  for  $180^\circ \leq x \leq 360^\circ$ ?

*Antara yang berikut, yang manakah mewakili graf  $y = \cos x$  bagi  $180^\circ \leq x \leq 360^\circ$ ?*



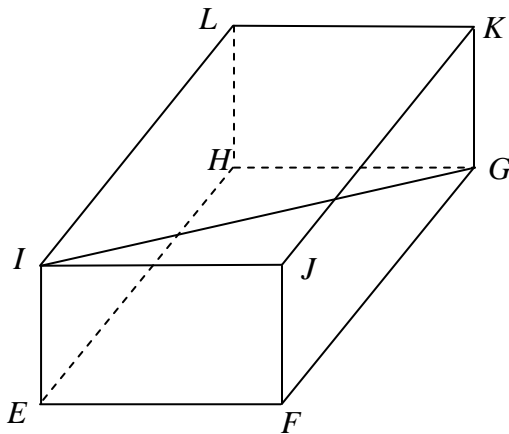
- 13 Given that  $\sin x^\circ = \frac{5}{13}$  where  $90^\circ \leq x \leq 180^\circ$ , find the value of  $\cos x^\circ$ .

*Diberi bahawa  $\sin x^\circ = \frac{5}{13}$  dengan keadaan  $90^\circ \leq x \leq 180^\circ$ , cari nilai kos  $x^\circ$ .*

- A  $\frac{12}{13}$
- B  $\frac{5}{13}$
- C  $-\frac{5}{13}$
- D  $-\frac{12}{13}$

- 14 Diagram 14 shows a cuboid with horizontal base  $EFGH$ .

*Rajah 14 menunjukkan sebuah kuboid dengan tapak mengufuk  $EFGH$ .*



Name the angle between the line  $IG$  and the plane  $IJKL$ .

*Namakan sudut di antara garis  $IG$  dengan satah  $IJKL$ .*

- A  $\angle IGK$
- B  $\angle IKG$
- C  $\angle IGJ$
- D  $\angle GIK$

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- 15** In Diagram 15,  $PQ$ ,  $RS$  and  $TU$  are three vertical poles on horizontal plane.  
Given  $PQ = TU$  and  $PR = RT$ .

*Dalam Rajah 15,  $PQ$ ,  $RS$  dan  $TU$  ialah tiga batang tiang tegak pada satah mengufuk.  
Diberi  $PQ = TU$  dan  $PR = RT$ .*

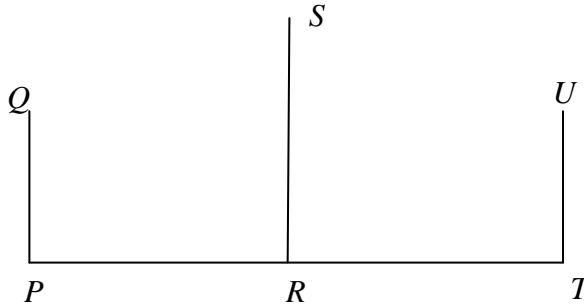


Diagram 15  
Rajah 15

The angle of depression point of  $R$  from  $Q$  is  $x^\circ$ .  
*Sudut tunduk  $R$  dari  $Q$  ialah  $x^\circ$ .*

Which of the following angles size is equal to  $x$ ?  
Antara yang berikut, saiz sudut manakah sama dengan  $x$ ?

- A**  $\angle SQR$
- B**  $\angle SUR$
- C**  $\angle RQP$
- D**  $\angle URT$

- 16 In the Diagram 16,  $J$ ,  $K$  and  $L$  are three points on horizontal ground and  $MJ$  is a tower.

*Dalam Rajah 16,  $J$ ,  $K$  dan  $L$  ialah tiga titik di atas tanah mengufuk dan  $MJ$  ialah sebuah menara.*

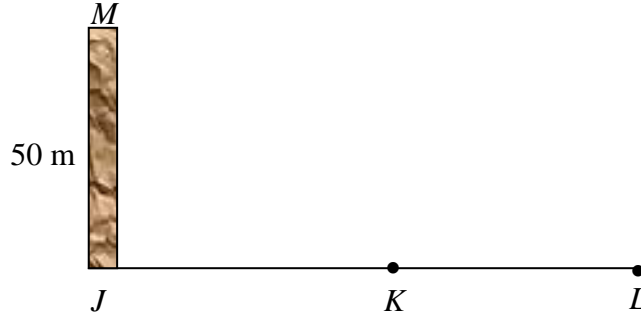


Diagram 16  
Rajah 16

The angle of depression of  $K$  and  $L$  from  $M$  are  $35^\circ$  and  $25^\circ$  respectively.  
Calculate the distance of  $KL$ , in m.

*Sudut tunduk  $K$  dan  $L$  dari  $M$  ialah  $35^\circ$  dan  $25^\circ$  masing-masing.  
Hitungkan jarak  $KL$  dalam m.*

- A 11.69
  - B 23.32
  - C 35.82
  - D 71.41
- 17  $(4g - 5h)^2 + g(g - 2h) =$
- A  $17g^2 - 42gh + 25h^2$
  - B  $17g^2 - 38gh + 25h^2$
  - C  $15g^2 - 38gh + 25h^2$
  - D  $15g^2 + 48gh + 25h^2$

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- 18 Express  $\frac{-3}{2q} - \frac{4-p}{pq}$  as a single fraction in its simplest form.

Ungkapkan  $\frac{-3}{2q} - \frac{4-p}{pq}$  sebagai pecahan dalam bentuk teringkas.

A  $\frac{-4p-4}{2pq}$

B  $\frac{-p-4}{2pq}$

C  $\frac{-p-8}{2pq}$

D  $\frac{-5p-8}{2pq}$

- 19 Given that  $\frac{p}{2} - q = pq$ , express  $p$  in terms of  $q$ .

Diberi  $\frac{p}{2} - q = pq$ , ungkapkan  $p$  dalam sebutan  $q$ .

A  $\frac{2q}{1-2q}$

B  $\frac{2q}{1-q}$

C  $\frac{q}{1-2q}$

D  $4q$



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20 Given  $5 - 2(4w + 5) = 4 - 5w$ , find the value of  $w$ .

Diberi  $5 - 2(4w + 5) = 4 - 5w$ , cari nilai bagi  $w$ .

A  $-3$

B  $\frac{9}{13}$

C  $3$

D  $\frac{11}{3}$

21 Simplify  $\left(\frac{49^2 \times 16^{\frac{1}{2}}}{8^2 \times 14^3}\right)^2$

Ringkaskan  $\left(\frac{49^2 \times 16^{\frac{1}{2}}}{8^2 \times 14^3}\right)^2$

A  $2^8 \times 7^2$

B  $2^4 \times 7$

C  $7^2 \times 2^{-8}$

D  $7^2 \times 2^{-14}$

22 Simplify  $(m^2n^3)^{\frac{1}{2}} \div \sqrt[3]{mn}$

Ringkaskan  $(m^2n^3)^{\frac{1}{2}} \div \sqrt[3]{mn}$

A  $m^{\frac{4}{3}}n^{\frac{1}{2}}$

B  $m^{\frac{4}{3}}n^{\frac{7}{6}}$

C  $m^{-\frac{2}{3}}n^{\frac{7}{6}}$

D  $m^{-\frac{2}{3}}n^{\frac{1}{2}}$

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- 23** List all the integers  $x$  that satisfying the inequalities  $5x - 4 \leq 70 \leq 13x - 10$ .

*Senaraikan semua integer  $x$  yang memenuhi ketaksamaan  $5x - 4 \leq 70 \leq 13x - 10$ .*

- A** 7, 8, 9, 10, 11, 12, 13, 14
- B** 7, 8, 9, 10, 11, 12, 13
- C** 6,7, 8, 9, 10, 11, 12, 13, 14
- D** 6,7,8, 9, 10, 11, 12, 13

- 24** The solution for  $9x - 5 < 2 - \frac{2x}{3}$  is

*Penyelesaian bagi  $9x - 5 < 2 - \frac{2x}{3}$  ialah*

- A**  $x < \frac{21}{29}$
- B**  $x < \frac{3}{7}$
- C**  $x < -\frac{3}{29}$
- D**  $x < -\frac{21}{29}$

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**25** Diagram 25 is a line graph showing the number of book sold in a week.

*Rajah 25 ialah graf garis yang menunjukkan bilangan buku yang dijual dalam seminggu.*

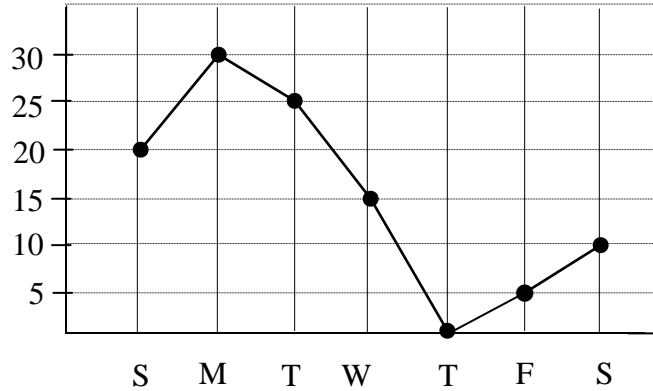


Diagram 25  
*Rajah 25*

Calculate the mean number of book sold per day.

*Hitung min jumlah buku yang dijual sehari.*

- A 10
- B 12
- C 15
- D 18

**26** Table 26 shows the score obtained by group of students in a quiz.

*Jadual 26 menunjukkan mata yang diperolehi sekumpulan pelajar dalam suatu kuiz.*

Score <i>Skor</i>	1	2	3	4	5	6
Number of students <i>Bilangan pelajar</i>	8	6	10	16	9	7

Table 26  
*Jadual 26*

The number of students who score less than the modal score is

*Bilangan pelajar yang mendapat skor kurang daripada mata mod ialah*

- A 10
- B 16
- C 24
- D 32

- 27 Diagram 27 shows the graph of  $y = x^n - 5$ , where  $n$  is an integer.  
*Rajah 27 menunjukkan graf bagi  $y = x^n - 5$ , di mana  $n$  ialah integer.*

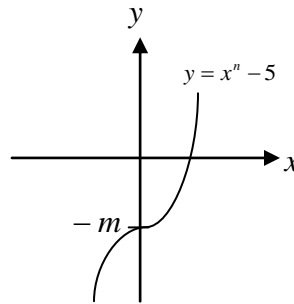


Diagram 27  
*Rajah 27*

Find the value of  $n$  and  $m$ .  
*Cari nilai  $n$  dan  $m$ .*

- A  $n = 1, m = 5$
  - B  $n = -1, m = -5$
  - C  $n = 3, m = -5$
  - D  $n = 3, m = 5$
- 28 Diagram 28 shows a Venn Diagram with universal set  $\xi$ .  
*Rajah 28 menunjukkan sebuah gambar rajah Venn dengan set semester  $\xi$ .*

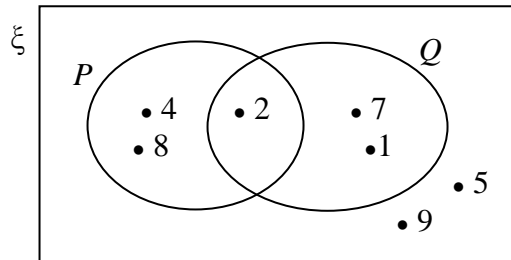


Diagram 28  
*Rajah 28*

The elements of set  $(P \cap Q')$  are

*Unsur-unsur bagi set  $(P \cap Q')$  adalah*

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

29 Diagram 29 shows a Venn Diagram with 6 as an element.

Rajah 29 menunjukkan gambar rajah Venn dengan 6 sebagai satu unsur.

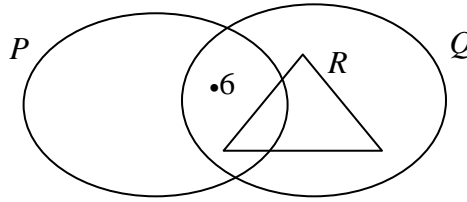


Diagram 29  
Rajah 29

Which of the following is true?

Antara berikut, yang manakah benar?

- A  $6 \in (Q \cap R)$
- B  $6 \in R' \cap (P \cap Q)$
- C  $6 \in (P' \cap R) \cap Q$
- D  $6 \in (Q' \cap P)$

30 In Diagram 30,  $R$ ,  $S$  and  $T$  are three sets.

Dalam Rajah 30,  $R$ ,  $S$  dan  $T$  adalah tiga set.

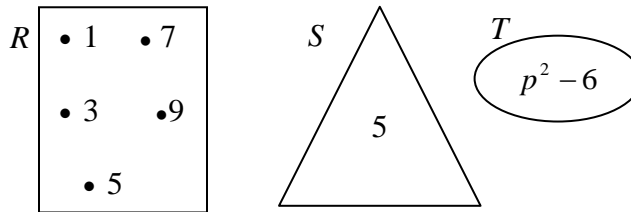


Diagram 30  
Rajah 30

Given that  $n(R) + n(S) = n(T)$ , find the value of  $p$

Diberi  $n(R) + n(S) = n(T)$ , cari nilai  $p$

- A 3
- B 4
- C 5
- D 6

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- 31** Given :  
 Universal set  $\xi = \{x : 4 \leq x < 24, x \text{ is an integer}\}$ .  
 Set  $K = \{x : x \text{ is a factor of } 24\}$ .  
 set  $L = \{x : \text{is multiple of } 6\}$ .  
 Find the  $n(K \cup L)'$ .

*Diberi:**Set semester  $\xi = \{x : 4 \leq x < 24, x \text{ adalah integer}\}$ .**Set  $K = \{x : x \text{ adalah faktor bagi } 24\}$ .**Set  $L = \{x : \text{ialah gandaan bagi } 6\}$* *Cari  $n(K \cup L)'$ .*

- A** 16  
**B** 15  
**C** 14  
**D** 13
- 32** Determine the  $x$ -intercept of the straight line  $3x - 2y + 7 = 0$   
 Tentukan pintasan  $-x$  bagi garis lurus  $3x - 2y + 7 = 0$

- A** 7  
**B** -7  
**C**  $-\frac{7}{3}$   
**D**  $\frac{7}{2}$

- 33 Diagram 33 shows a straight line  $TU$  on a Cartesian plane.  
*Rajah 33 menunjukkan garis lurus  $TU$  pada suatu satah Cartesian.*

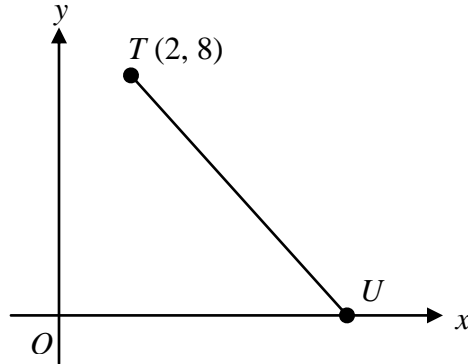


Diagram 33  
*Rajah 33*

The distance of  $OU$  is 10 units. Find the gradient of  $TU$ .  
*Jarak  $OU$  ialah 10 unit. Cari kecerunan bagi  $TU$ .*

- A -4
  - B -1
  - C 1
  - D 4
- 34 Diagram 34 shows 11 labelled cards in a box. A card is picked at random from the box. What is the probability that the letter not “C” is chosen?

*Dalam Rajah 34 menunjukkan 11 kad berlabel di dalam sebuah kotak. Sekeping kad dipilih secara rawak dari kotak itu. Apakah kebarangkalian bukan huruf “C” dipilih?*



Diagram 34  
*Rajah 34*

- A  $\frac{2}{11}$
- B  $\frac{9}{11}$
- C  $\frac{3}{11}$
- D  $\frac{5}{11}$

- 35** A box contains 56 balls written with odd and even numbers. If a ball is picked randomly from the box, the probability of picking a ball with even numbers is  $\frac{3}{7}$ . Find the numbers of ball with odd numbers.

*Sebuah kotak terdapat 56 biji bola bernombor genap dan ganjil. Jika sebiji bola dipilih secara rawak dari kotak itu, kebarangkalian untuk memilih bola bernombor genap ialah  $\frac{3}{7}$ .*

*Cari bilangan bola bernombor ganjil.*

- A** 16
- B** 24
- C** 32
- D** 56

- 36** In a factory there are 360 female and male workers. A worker is choose at random. Probability to choose a female worker is  $\frac{5}{9}$ . Another 90 male worker join the company. If a worker is choose at random, what is the probability to choose a female worker.

*Dalam sebuah kilang terdapat 360 orang pekerja perempuan dan lelaki. Seorang pekerja dipilih secara rawak. Kebarangkalian pekerja perempuan dipilih ialah  $\frac{5}{9}$ .*

*90 orang pekerja lelaki diambil sebagai pekerja baru. Jika seorang pekerja dipilih secara rawak, apakah kebarangkalian seorang pekerja perempuan dipilih.*

- A**  $\frac{5}{18}$
- B**  $\frac{4}{9}$
- C**  $\frac{1}{4}$
- D**  $\frac{5}{9}$



- 37 Given that  $P$  varies inversely as the cube root of  $R$  and  $P = \frac{1}{3}$  when  $R = 216$ .

Find the value of  $R$  when  $P = 4$ .

*Diberi  $P$  berubah secara songsang dengan punca kuasa tiga  $R$  dan  $P = \frac{1}{3}$  apabila*

*$R = 216$ .*

*Cari nilai  $R$  apabila  $P = 4$ .*

A  $\frac{1}{8}$

B  $\frac{1}{4}$

C 2

D 8

- 38 It is given that  $p$  varies directly to  $(s + 1)$  and inversely as the square of  $k$ .  
Find the relation between  $p$ ,  $s$  and  $k$ .

*Diberi bahawa  $p$  berubah secara langsung dengan  $(s + 1)$  dan secara songsang dengan kuasa dua  $k$ .*

*Cari hubungan di antara  $p$ ,  $s$  dan  $k$ .*

A  $p \propto (s + 1) k^2$

B  $p \propto \frac{(s + 1)}{k^2}$

C  $p \propto \frac{(s + 1)}{\sqrt{k}}$

D  $p \propto \frac{(s + 1)^2}{k}$

39  $2\begin{pmatrix} 2 \\ 3 \end{pmatrix} - \begin{pmatrix} -5 \\ -7 \end{pmatrix} =$

A  $\begin{pmatrix} 9 \\ 10 \end{pmatrix}$

B  $\begin{pmatrix} 9 \\ 13 \end{pmatrix}$

C  $\begin{pmatrix} -1 \\ -1 \end{pmatrix}$

D  $\begin{pmatrix} 6 \\ 20 \end{pmatrix}$

40 Given that  $(h \ 3 \ 4)\begin{pmatrix} 2 \\ 3 \\ 2h \end{pmatrix} = (49)$ , the value of  $h$  is

Diberi  $(h \ 3 \ 4)\begin{pmatrix} 2 \\ 3 \\ 2h \end{pmatrix} = (49)$ , nilai  $h$  ialah

A -3

B 2

C 4

D 8

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