JABATAN PELAJARAN NEGERI

NEGERI SEMBILAN DARUL KHUSUS

PRAPENILAIAN MENENGAH RENDAH 2012 50/1

MATHEMATICS

Kertas 1

Ogos

$1\frac{1}{4}$ jam **Satu jam lima belas 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 belakang kertas soalan ini.*

Kertas soalan ini mengandungi 26 halaman bercetak.

[Lihat halaman sebelah

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MATHEMATICAL FORMULAE

RUMUS MATEMATIK

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

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

RELATIONS
PERKAITAN

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

2 $a^m \div a^n = a^{m-n}$

3 $(a^m)^n = a^{mn}$

4 Distance / *Jarak* $= \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$

5 Midpoint / *Titik tengah*

$$(x, y) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$$

6 Average speed $= \dfrac{\text{total distance}}{\text{total time}}$

Purata laju $= \dfrac{\textit{jumlah jarak}}{\textit{jumlah masa}}$

7 Mean $= \dfrac{\text{sum of data}}{\text{number of data}}$

Min $= \dfrac{\textit{hasil tambah nilai data}}{\textit{bilangan data}}$

8 Pythagoras's theorem / *teorem Pythagoras*

$c^2 = a^2 + b^2$

SHAPES AND SPACES

BENTUK DAN RUANG

1 Area of rectangle $=$ length $\times$ width
Luas segi empat tepat $=$ *panjang* $\times$ *lebar*

2 Area of triangle $= \frac{1}{2} \times$ base $\times$ height
Luas segi tiga $= \frac{1}{2} \times$ *tapak* $\times$ *tinggi*

3 Area of parallelogram $=$ base $\times$ height
Luas segi empat selari $=$ *tapak* $\times$ *tinggi*

4 Area of trapezium $= \frac{1}{2} \times$ sum of parallel sides $\times$ height
Luas trapezium $= \frac{1}{2} \times$ *hasil tambah dua sisi selari* $\times$ *tinggi*

5 Circumference of circle $= \pi d = 2\pi r$
Lilitan bulatan $= \pi d = 2\pi j$

6 Area of circle $= \pi r^2$
Luas bulatan $= \pi j^2$

7 Curved surface area of cylinder $= 2\pi rh$
Luas permukaan melengkung silinder $= 2\pi jt$

8 Surface of sphere $= 4\pi r^2$
Luas permukaan sfera $= 4\pi j^2$

9 Volume of right prism $=$ cross sectional area $\times$ length
Isi padu prisma tegak $=$ *luas keratan rentas* $\times$ *panjang*

10 Volume of cuboid $=$ length $\times$ width $\times$ height
Isi padu kuboid $=$ *panjang* $\times$ *lebar* $\times$ *tinggi*

11 Volume of cylinder $= \pi r^2 h$
Isi padu silinder $= \pi j^2 t$

12 Volume of cone $= \frac{1}{3}\pi r^2 h$
Isi padu kon $= \frac{1}{3}\pi j^2 t$

13 Volume of sphere $= \frac{4}{3}\pi r^3$

Isi padu sfera $= \frac{4}{3}\pi j^3$

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

Isi padu piramid tegak $= \frac{1}{3} \times$ *luas tapak* $\times$ *tinggi*

15 Sum of interior angles of a polygon $= (n-2) \times 180°$

Hasil tambah sudut pedalaman poligon $= (n-2) \times 180°$

16 $\frac{\text{Length of arc}}{\text{Circumference}} = \frac{\text{Angle at centre}}{360°}$

$\frac{\textit{Panjang lengkok}}{\textit{Lilitan bulatan}} = \frac{\textit{Sudut di pusat}}{360°}$

17 $\frac{\text{Area of sector}}{\text{Area of circle}} = \frac{\text{Angle at centre}}{360°}$

$\frac{\textit{Luas sektor}}{\textit{Luas bulatan}} = \frac{\textit{Sudut di pusat}}{360°}$

18 Scale factor / *Faktor skala*, $k = \frac{PA'}{PA}$

19 Area of image $= k^2 \times$ area of object

Luas imej $= k^2 \times$ *luas objek*

1 Which number when rounded off to the nearest thousand becomes 563 000?
Nombor manakah apabila dibundarkan kepada ribu yang hampir menjadi 563 000?

A 563 735

B 563 568

C 562 605

D 562 236

2 Which of the following gives the largest value?
Antara berikut yang manakah memberi nilai yang paling besar?

A $\frac{1}{2}+\frac{1}{5}$

B $\frac{1}{4}+\frac{1}{3}$

C $\frac{1}{6}+\frac{1}{2}$

D $\frac{1}{9}+\frac{1}{8}$

3 Table 1 shows the temperature of five cities on a particular day.
Jadual 1 *menunjukkan suhu bagi lima bandar raya pada suatu hari tertentu.*

Cities *Bandar Raya*	Temperature (°C) *Suhu* (°C)
London	– 8°
Seoul	– 2°
Cape Town	14°
Cairo	32°
Tokyo	2°

Table 1
Jadual 1

Find the difference, in °C, the temperature between the coldest and the warmest cities.
Cari perbezaan, dalam °C, *suhu antara bandar raya yang bersuhu paling sejuk dan bandar raya yang bersuhu paling panas.*

A 18°

B 30°

C 34°

D 40°

4 Mr. Ramasamy bought a motorcycle for RM14 500. After three years, he sold the motorcycle for RM11 600.
Calculate the percentage loss.
Encik Ramasamy membeli sebuah motorsikal berharga RM14 500. *Selepas tiga tahun, dia menjual motorsikal itu pada harga* RM11 600.
Hitung peratus kerugiannya.

A 20

B 25

C 60

D 80

5 Diagram 1 shows four cards, *K*, *L*, *M* and *N*. Each card has four numbers.
Rajah 1 *menunjukkan empat kad K*, *L*, *M* dan *N*. *Setiap kad mempunyai empat nombor*.

12	16	12	36	12	36	12	33
33	72	48	72	44	99	40	54
K		*L*		*M*		*N*	

Diagram 1
Rajah 1

Which card has numbers that are all common factors of 3 and 4.
Kad yang manakah mempunyai nombor-nombor yang semuanya adalah faktor sepunya 3 *dan* 4.

A *K*

B *L*

C *M*

D N

6 Aisyah has 19 m of cloth. She uses it to make 15 cushion covers. Each cushion requires 1.25 m of cloth.
What is the length, in cm, of the remaining cloth?
Aisyah ada 19 m *kain. Dia menggunakan kain itu untuk membuat* 15 *helai sarung kusyen. Setiap helai sarung kusyen memerlukan* 1.25 m *kain.*
Berapakah panjang, dalam cm, *baki kain itu*?

A 0.25

B 2.5

C 25

D 250

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7 A flight from Penang to Kuala Lumpur takes 50 minutes. The flight which was scheduled to depart at 1435 hours is delayed by $\frac{3}{4}$ hour.

At what time, in the 24 hour system, did the aeroplane arrive at Kuala Lumpur?
Penerbangan dari Pulau Pinang ke Kuala Lumpur mengambil masa 50 *minit. Penerbangan dijadualkan berlepas pada jam* 1435 *tetapi tertunda selama* $\frac{3}{4}$ *jam.*
Pada pukul berapakah, dalam sistem 24 *jam, kapal terbang itu tiba di Kuala Lumpur*?

A 1300

B 1340

C 1440

D 1610

8 In Diagram 2, *PQRS* and *TQU* are straight lines.
Dalam Rajah 2, *PQRS dan TQU ialah garis lurus.*

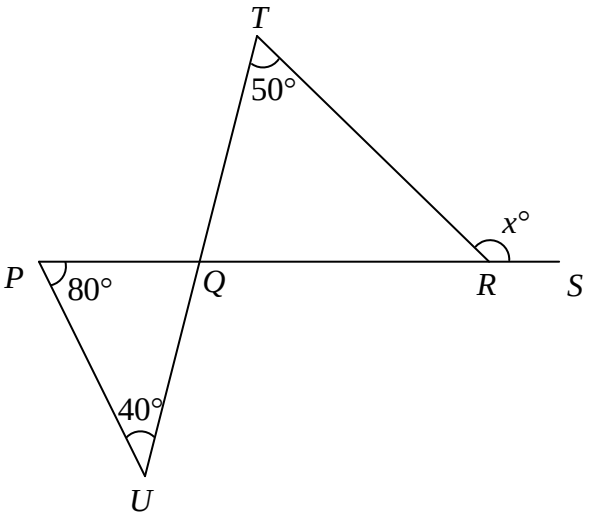


Diagram 2
Rajah 2

Find the value of *x*.
Cari nilai x.

A 110

B 120

C 140

D 170

9 Ramjit Singh has RM4 800. He uses $\frac{3}{8}$ of the money to buy a handphone and RM1 800 to buy a laptop. He gives the balance of the money to his mother. What is the fraction of money he gives to his mother?

Ramjit Singh mempunyai RM4 800. *Dia menggunakan* $\frac{3}{8}$ *daripada wang itu untuk membeli telefon bimbit dan* RM1 800 *untuk membeli komputer riba. Dia memberi baki wang itu kepada ibunya.*
Apakah pecahan wang yang telah diberikan kepada ibunya?

A $\frac{1}{4}$

B $\frac{1}{2}$

C $\frac{5}{8}$

D $\frac{3}{4}$

10 In Diagram 3, *PRQ* is a right-angled triangle. *PRS* is an isosceles triangle.
Dalam Rajah 3, *PRQ ialah segi tiga bersudut tegak. PRS ialah segi tiga sama kaki.*

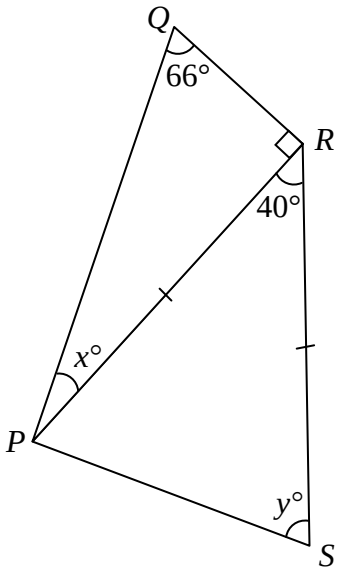


Diagram 3
Rajah 3

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

A 26
B 30
C 46
D 96

11 In Diagram 4, *P*, *Q*, *R*, *S*, *T* and *U* are the vertices of a regular polygon.
Dalam Rajah 4, *P*, *Q*, *R*, *S*, *T dan U ialah bucu-bucu bagi sebuah poligon sekata.*

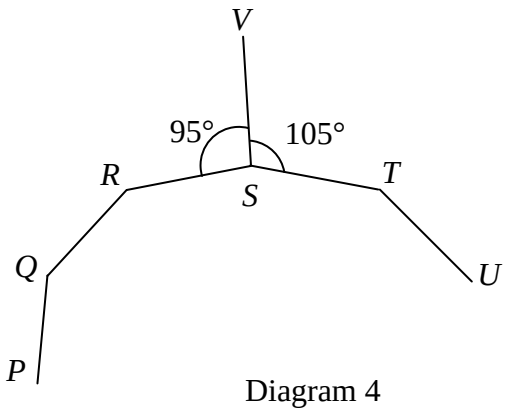


Diagram 4
Rajah 4

Find the number of sides of the polygon.
Cari bilangan sisi poligon itu.

A 9

B 10

C 12

D 18

12 Diagram 5 shows a circle with centre *O* and radius 6 cm.
Rajah 5 *menunjukkan sebuah bulatan berpusat O dan berjejari* 6 cm.

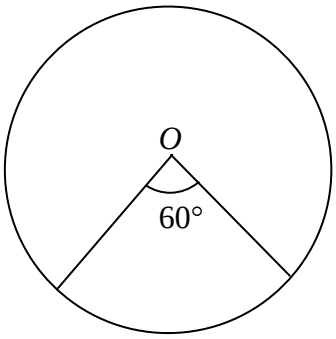


Diagram 5
Rajah 5

Calculate the area, in cm^2, of the major sector of the circle.
Hitung luas, dalam cm^2, *sektor major bulatan itu.*

A 5π

B 6π

C 10π

D 30π

13 In Diagram 6, *ABCD* is a rectangle. *F* is the midpoint of *BC*.
Dalam Rajah 6, *ABCD ialah sebuah segi empat tepat. F ialah titik tengah BC.*

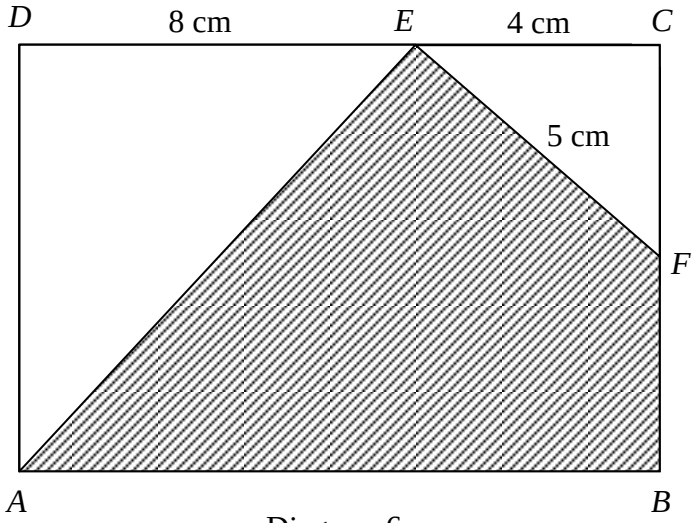


Diagram 6
Rajah 6

Calculate the perimeter, in cm, of the shaded region.
Hitung perimeter, dalam cm, *kawasan yang berlorek.*

A 25

B 30

C 36

D 42

14 The distance between Seremban and Bukit Beruntung is 120 km. Wani drives from Seremban to Bukit Beruntung with a speed of 80 kmh^{-1}. She drives back to Seremban from Bukit Beruntung with a speed of 90 kmh^{-1}.
Calculate the total time taken, in hours, for the whole journey.
Jarak di antara Seremban dan Bukit Beruntung ialah 120 km. *Wani memandu dari Seremban ke Bukit Beruntung dengan kelajuan* 80 kmj^{-1}. *Dia memandu balik ke Seremban dari Bukit Beruntung dengan kelajuan* 90 kmj^{-1}.
Hitung jumlah masa yang diambil, dalam jam, untuk keseluruhan perjalanan itu.

A $1\frac{1}{3}$

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

C $2\frac{2}{5}$

D $2\frac{5}{6}$

15 Diagram 7 shows a regular hexagon *PQRSTU*. *SWV*, *TUV* and *PWU* are straight lines.
Rajah 7 menunjukkan sebuah heksagon sekata PQRSTU. SWV, TUV dan PWU ialah garis lurus.

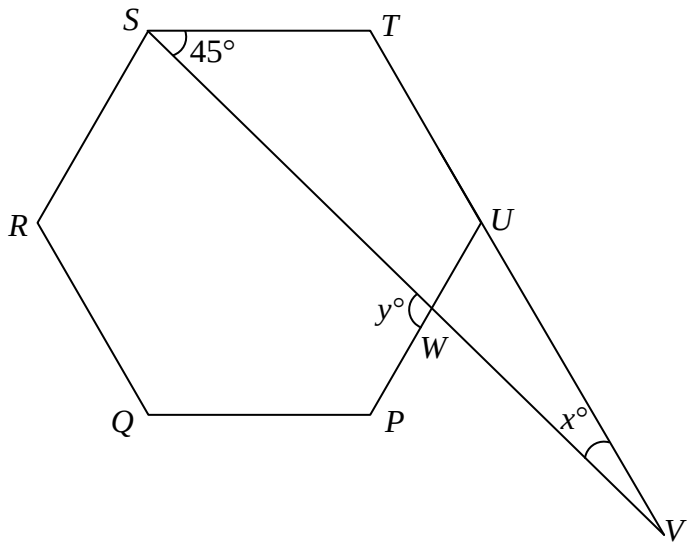


Diagram 7
Rajah 7

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

A 75

B 90

C 105

D 120

16 It is given that $x = -6$ and $4x - 3y = 9$.
Calculate the value of y.
Diberi bahawa $x = -6$ *dan* $4x - 3y = 9$.
Hitung nilai y.

A -11

B -5

C 5

D 11

17 Diagram 8 shows a rectangular lawn owned by Puan Latifah.
Rajah 8 *menunjukkan laman berbentuk segi empat tepat milik Puan Latifah.*

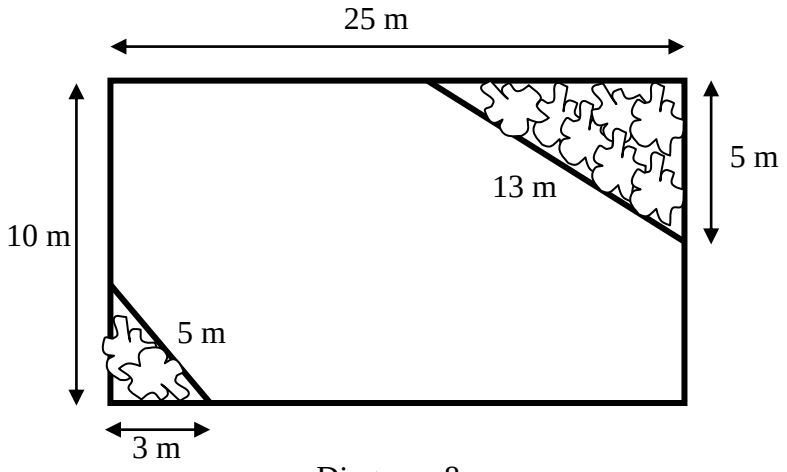


Diagram 8
Rajah 8

Puan Latifah wants to plant flowers at two triangular shaped corners. The rest of the lawn is to be planted with grass.
Find, in m^2, the area of the lawn to be planted with grass.
Puan Latifah ingin menanam pokok bunga pada dua sudut berbentuk segi tiga. Bahagian lain laman akan ditanam dengan rumput.
Cari, dalam m^2*, luas laman yang akan ditanam dengan rumput.*

A 214

B 170

C 80

D 64

18 The exchange rate of Ringgit Malaysia to US Dollar is RM360 for every 100 US Dollar last December. Ahmad wants to change 720 US Dollar to Ringgit Malaysia.
Calculate the total amount of money, in RM, that he will receive.
Kadar pertukaran Ringgit Malaysia kepada US Dollar ialah RM360 *setiap* 100 *US Dollar pada Disember lepas. Ahmad hendak menukar* 720 *US Dollar kepada Ringgit Malaysia.*
Hitung jumlah wang, dalam RM, *yang akan diterima.*

A 200

B 460

C 1440

D 2592

19 Diagram 9 shows a cylindrical mould and two metal balls.
Rajah 9 *menunjukkan sebuah acuan silinder dan dua biji bebola logam*.

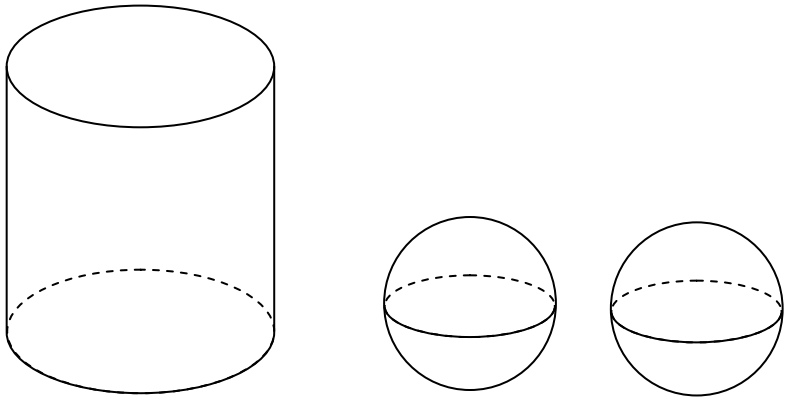


Diagram 9
Rajah 9

The diameter of the cylindrical mould is 24 cm. The volume of a metal ball is 288π cm^3. Two metal balls are melted into liquid form and poured into the cylindrical mould.
Calculate the height, in cm, of the liquid in the mould.
Diameter acuan silinder ialah 24 cm. *Isi padu sebiji bebola logam ialah* 288π cm^3. *Dua biji bebola logam dicairkan dan dituangkan ke dalam acuan silinder itu.*
Hitung tinggi, dalam cm, *cecair dalam acuan itu.*

A 1

B 2

C 4

D 6

20 Given that $P : Q = 2 : 5$ and $P : R = 3 : 4$.
Find the ratio of $P : Q : R$.
Diberi bahawa $P : Q = 2 : 5$ *dan* $P : R = 3 : 4$.
Cari nisbah $P : Q : R$.

A 5 : 5 : 4

B 5 : 8 : 9

C 6 : 15 : 8

D 6 : 15 : 20

21 Diagram 10 shows a prism.
Rajah 10 *menunjukkan sebuah prisma*.

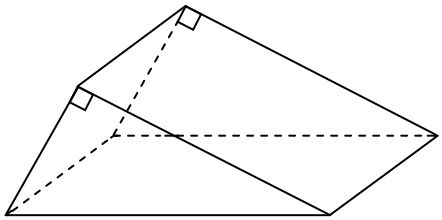
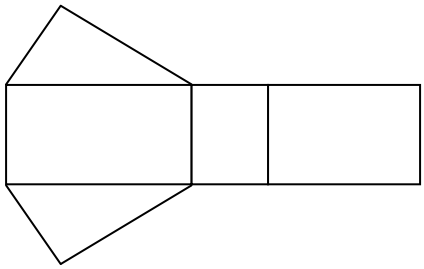


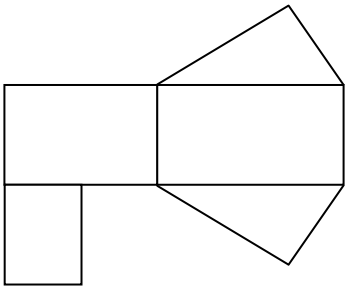
Diagram 10
Rajah 10

Which of the following is the net of the prism?
Manakah yang berikut bentangan prisma itu?

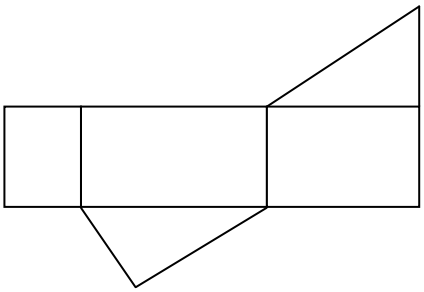
A



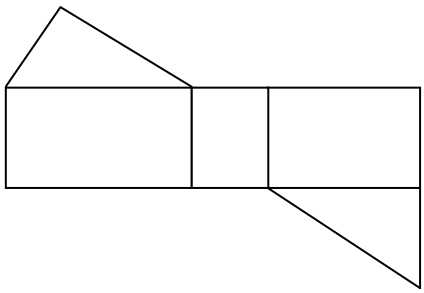
B



C



D



22 Diagram 11 shows the remaining of a cuboid.
Rajah 11 *menunjukkan baki sebuah pepejal kuboid.*

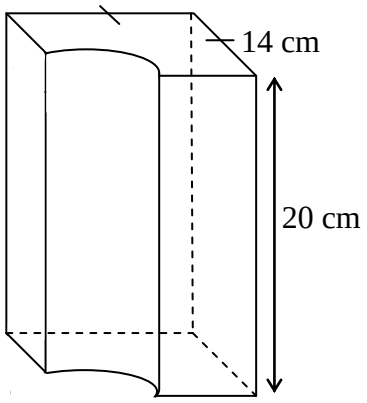


Diagram 11
Rajah 11

A quarter of a cylinder with diameter of 14 cm is removed from the cuboid solid. Find the volume, in cm^3, of the remaining solid.
Suku bahagian daripada satu pepejal silinder berdiameter 14 cm *dikeluarkan daripada pepejal kuboid itu.*
Hitung isi padu, dalam cm^3, *baki pepejal itu.*

[Use / *Guna* $\pi = \frac{22}{7}$]

A 2380

B 3150

C 3810

D 3920

23 Table 2 shows the values of variables *x* and *y* for the function $y = 3x^2 + 1$.
Jadual 2 *menunjukkan nilai-nilai pembolehubah x dan y bagi fungsi* $y = 3x^2 + 1$.

x	-1	0	1	2
y	M	1	4	n

Table 2
Jadual 2

Calculate the value of $n - m$.
Hitung nilai $n - m$.

A 3

B 9

C 15

D 27

24 Diagram 12 shows a circle with centre *O*.
Rajah 12 *menunjukkan sebuah bulatan berpusat O.*

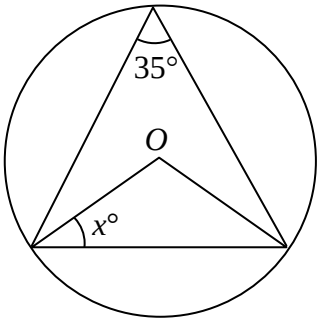


Diagram 12
Rajah 12

Find the value of *x*.
Cari nilai x.

A 45

B 55

C 60

D 70

25 In Diagram 13, *ST* and *PQ* are two parallel lines.
Dalam Rajah 13, *ST dan PQ ialah dua garis selari.*

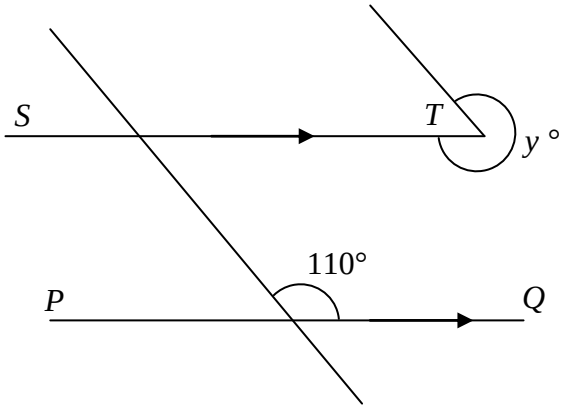


Diagram 13
Rajah 13

Find the value of *y*.
Cari nilai y.

A 250

B 270

C 290

D 340

26 Diagram 14 shows a triangular and a square frames.
Rajah 14 *menunjukkan sebuah rangka berbentuk segi tiga dan segi empat sama.*

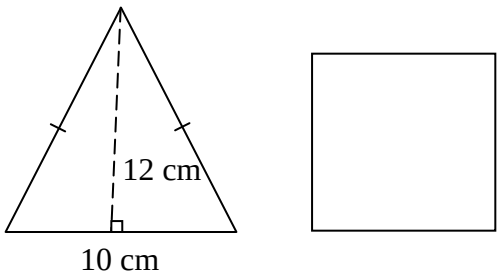


Diagram 14
Rajah 14

The same length of wire is used to form both the triangular and the square frames. The height of the triangle is 12 cm and the base is 10 cm.
Find the length, in cm, of the side of the square.
Panjang dawai yang sama digunakan untuk membentuk rangka berbentuk segi tiga dan segi empat sama itu. Tinggi segi tiga ialah 12 cm *dan tapaknya ialah* 10 cm.
Cari panjang sisi, dalam cm, *segi empat sama itu.*

A 22

B 15

C 9

D 6

27 Table 3 shows the number of eggs eaten by 30 students in a week.
Jadual 3 *menunjukkan bilangan telur yang dimakan oleh* 30 *orang murid dalam seminggu.*

Number of eggs *Bilangan telur*	0	2	4	6	8
Number of students *Bilangan murid*	3	7	10	6	4

Table 3
Jadual 3

Calculate the number of students who eat more than 2 eggs but less than 8 eggs in a week.
Hitung bilangan murid yang makan lebih dari 2 *biji telur tetapi kurang dari* 8 *biji telur dalam tempoh seminggu.*

A 10

B 16

C 18

D 20

28 In Diagram 15, *JKLM* is a rectangle. *PLM*, *NKP* and *JNQ* are right-angled triangles.
Dalam Rajah 15, *JKLM ialah sebuah segi empat tepat. PLM, NKP dan JNQ ialah segi tiga bersudut tegak.*

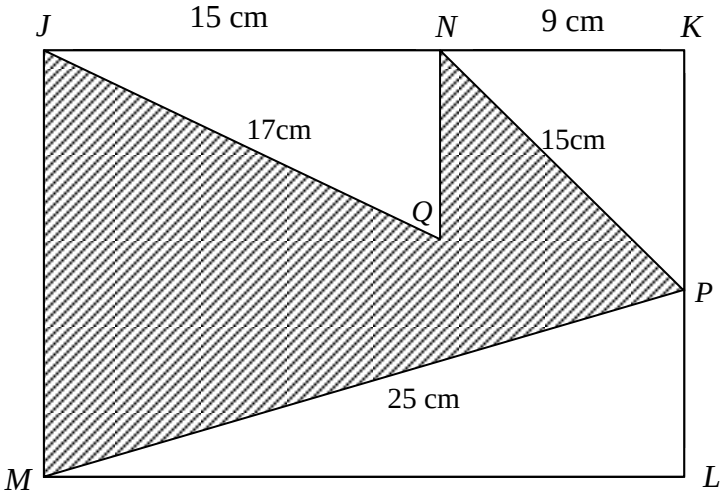


Diagram 15
Rajah 15

Calculate the area, in cm^2, of the shaded region.
Hitung luas kawasan, dalam cm^2, *kawasan berlorek.*

A 84

B 86

C 198

D 258

29 Table 4 shows the donations made by a group of students to the Charity Fund of their school.
Jadual 4 *menunjukkan sumbangan yang dibuat oleh sekumpulan pelajar kepada Tabung Kebajikan sekolah mereka.*

Donation (RM) *Sumbangan* (RM)	10	20	30	40	50
Frequency *Kekerapan*	4	5	3	4	8

Table 4
Jadual 4

Find the median.
Cari median.

A 30

B 35

C 45

D 50

30 Diagram 16 is a pictogram showing the number of dresses sold on a website in five months.
Rajah 16 *ialah piktogram yang menunjukkan bilangan baju yang dijual di laman sesawang dalam tempoh lima bulan.*

Month *Bulan*	Number of dresses *Bilangan baju*
March *Mac*	
April *April*	
May *Mei*	
June *Jun*	
July *Julai*	

represents 50 dresses
mewakili 50 *baju*

Diagram 16
Rajah 16

Calculate the number of dresses sold after April.
Hitung bilangan baju yang dijual selepas bulan April.

A 1050

B 1250

C 1300

D 1500

31 Solve the linear inequality $15-3x > 2x-5$.
Selesaikan ketaksamaan linear $15-3x > 2x-5$.

A $x < 4$

B $x > 4$

C $x < -15$

D $x > -15$

32 In Diagram 17, *PQRS* is a rhombus with side 8 cm. *QTS* is an arc of a circle with centre *P*.
Dalam Rajah 17, *PQRS ialah sebuah rombus dengan sisi* 8 cm. *QTS ialah lengkok sebuah bulatan berpusat P*.

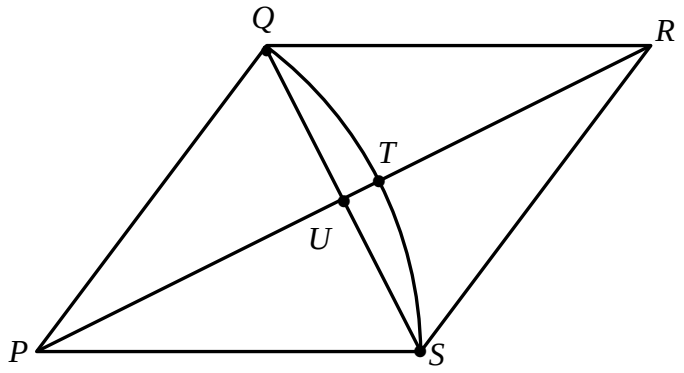


Diagram 17
Rajah 17

X is a locus of a point which moves such that its distance is constantly 8 cm from point *P*.
Y is a locus of a point which moves such that it is always equidistant from point *Q* and point *S*.
X ialah lokus suatu titik bergerak dengan keadaan jaraknya sentiasa 8 cm *dari titik P*.
Y ialah lokus suatu titik bergerak dengan keadaan jaraknya sentiasa sama dari titik Q dan titik S.
Which of the points, *Q, S, T* or *U*, is the intersection of locus *X* and locus *Y* ?
Antara titik Q, S, T dan *U, yang manakah persilangan antara lokus X dan lokus Y* ?

A *Q*

B *S*

C *T*

D *U*

33 In Diagram 18, *O* is the origin. *M* is the midpoint of *OR* and the distance of *PN* is 12 units.
Dalam Rajah 18, *O ialah asalan. M ialah titik tengah bagi OR dan jarak bagi PN ialah* 12 *unit*.

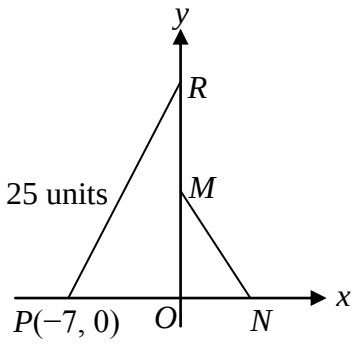


Diagram 18
Rajah 18

Calculate the distance, in unit, of *MN*.
Hitung jarak, dalam unit, bagi MN.

A 5

B 12

C 13

D 16

34 Diagram 19 shows triangle *P* and triangle *Q*.
Rajah 19 *menunjukkan segi tiga P dan segi tiga Q*.

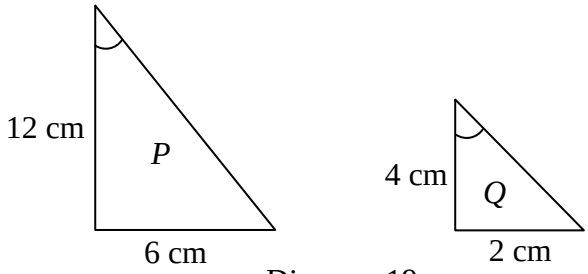


Diagram 19
Rajah 19

Triangle *P* is the scale drawing for triangle *Q* using the scale of 1: *n*.
Find the value of *n*.
Segi tiga P ialah lukisan berskala bagi segi tiga Q menggunakan skala 1*: n*.
Cari nilai n.

A $\frac{1}{3}$

B $\frac{1}{2}$

C 2

D 3

35 Diagram 20 shows four points on a Cartesian plane.
Rajah 20 *menunjukkan empat titik pada suatu satah Cartes.*

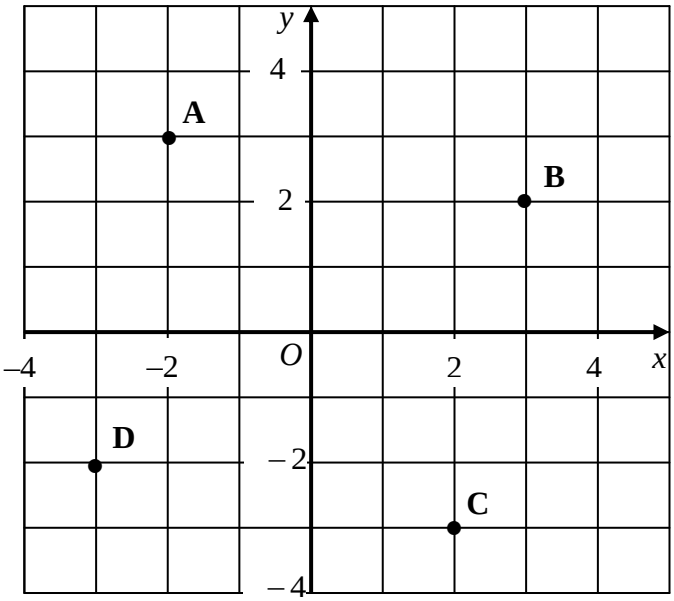


Diagram 20
Rajah 20

Which of the points **A**, **B**, **C** or **D**, represents (–3, −2)?
Di antara titik **A**, **B**, **C** *dan* **D**, *yang manakah mewakili* (−3, −2)?

36 Diagram 21 shows a right prism.
Rajah 21 *menunjukkan sebuah prisma tegak.*

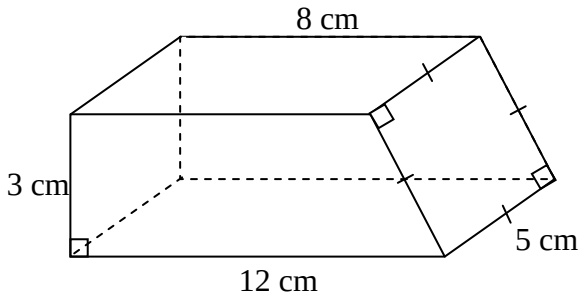


Diagram 21
Rajah 21

Calculate the total surface area, in cm^2, of the prism.
Hitung jumlah luas permukaan, dalam cm^2, *prisma itu.*

A 160

B 170

C 194

D 200

37 Diagram 22 is a pie chart which shows the number of readers for three types of magazines.
Rajah 22 *ialah carta pai yang menunjukkan bilangan pembaca bagi tiga jenis majalah.*

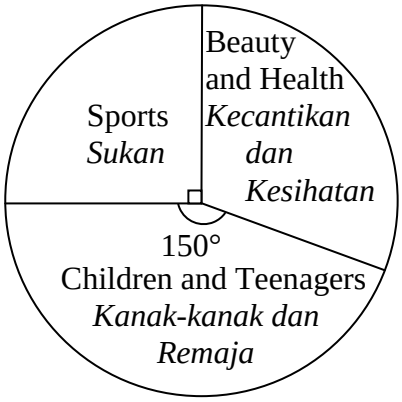


Diagram 22
Rajah 22

The total number of readers is 48.
Calculate the number of readers for Beauty and Health magazine.
Jumlah bilangan pembaca ialah 48.
Hitung bilangan pembaca majalah Kecantikan dan Kesihatan.

A 12

B 16

C 18

D 20

38 In Diagram 23, *KLMN* is a cyclic quadrilateral.
Dalam Rajah 23, *KLMN ialah sisi empat kitaran.*

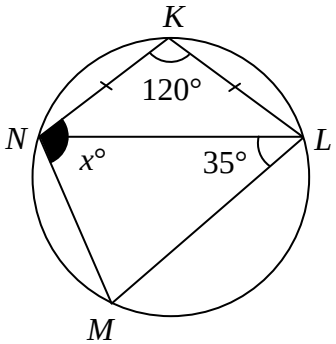


Diagram 23
Rajah 23

Find the value of *x*.
Cari nilai bagi x.

A 155

B 115

C 85

D 65

39 In Diagram 24, *PQRS* is a rectangle. *QPT* and *TSR* are quadrants of a circle with centre *P* and *S* respectively.
Dalam Rajah 24, *PQRS ialah segi empat tepat. QPT dan TSR ialah sukuan bagi bulatan yang berpusat pada P dan S masing-masing.*

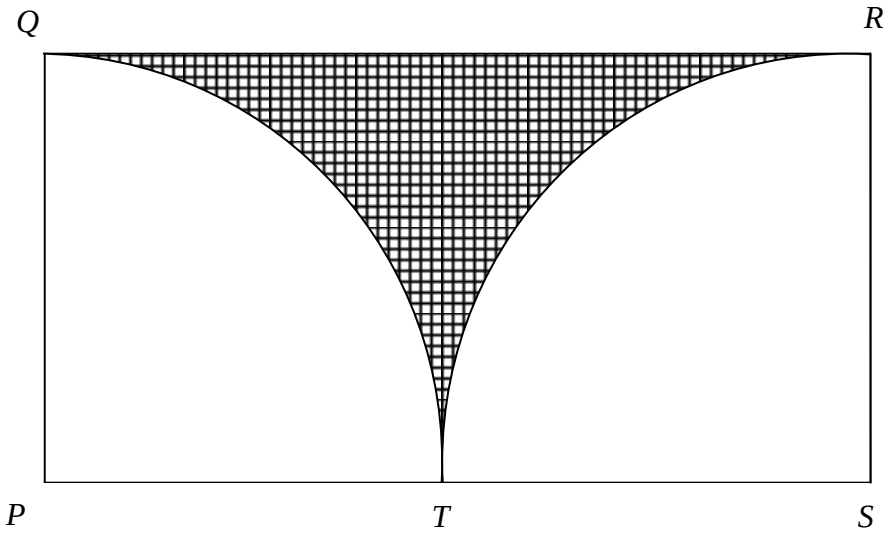


Diagram 24
Rajah 24

It is given that *PS* = 28 cm and *T* is the midpoint of *PS*.
Calculate the perimeter, in cm, of the shaded region.
Diberi bahawa PS = 28 cm *dan T ialah titik tengah bagi PS.*
Hitung perimeter, dalam cm, *kawasan yang berlorek.*

[Use / *Guna* $\pi = \frac{22}{7}$]

A 44

B 50

C 56

D 72

40 Diagram 25 shows five triangles drawn on a grid of equal squares.
Rajah 25 *menunjukkan lima buah segi tiga yang dilukis pada grid segi empat sama.*

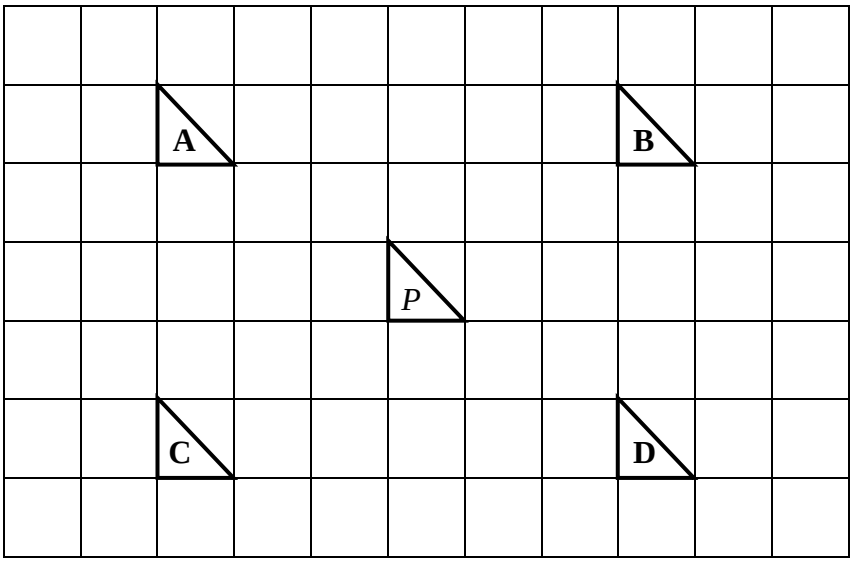


Diagram 25
Rajah 25

Which triangles, **A**, **B**, **C** or **D**, is the image of triangle *P* under the translation $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$?

Antara segi tiga **A**, **B**, **C** *dan* **D**, *yang manakah imej segi tiga P di bawah translasi* $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$?

END OF QUESTION PAPER
KERTAS SOALAN TAMAT

INFORMATION FOR CANDIDATES
MAKLUMAT UNTUK CALON

1. This question paper consists of **40** questions.
   Kertas soalan ini mengandungi **40** *soalan.*

2. Answer **all** questions
   Jawab ***semua*** *soalan.*

3. Each question is followed by four alternative answers, **A**, **B**, **C** or **D**. For each question, choose **one** answer only. Blacken your answer on the objective answer sheet provided.

   Tiap-tiap soalan diikuti oleh empat pilihan jawapan, iaitu **A**, **B**, **C** *dan* **D**. *Bagi setiap soalan, pilih* ***satu*** *jawapan sahaja. Hitamkan jawapan anda pada kertas jawapan objektif yang disediakan.*

4. If you wish to change your answer, erase the blackened mark that you have made. Then blacken the new answer.

   Jika anda hendak menukar jawapan, padamkan tanda yang telah dibuat. Kemudian hitamkan jawapan yang baru.

5. The diagrams in the questions provided are not drawn to scale unless stated.
   Rajah yang mengiringi soalan tidak dilukis mengikut skala kecuali dinyatakan.

6. A list of formulae is provided on pages 2 to 4.
   Satu senarai rumus disediakan di halaman 2 *hingga* 4.

7. You may use a non-programmable scientific calculator.
   Anda dibenarkan menggunakan kalkulator saintifik yang tidak boleh diprogram.

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