

**GOLDEN SCHOOL HOLIDAY
TINGKATAN 2**

NAMA:

KELAS:

Calculate the value of $(-14) \div (-2)$.

Hitung nilai $(-14) \div (-2)$.

[3 marks]
[3 markah]

Answer:

Jawapan:

Calculate the value of $(-17) \times (-2) \times (-3)$.

Hitung nilai $(-17) \times (-2) \times (-3)$.

[3 marks]
[3 markah]

Answer:

Jawapan:

Calculate the value of $(-18) + 10 \times 9$.

Hitung nilai $(-18) + 10 \times 9$.

[3 marks]
[3 markah]

Answer:

Jawapan:

Simplify each of the following.

Permudahkan setiap yang berikut.

(a) $2st \times (9t)^3$

(b) $2m^2n \div (-3mn)$

[4 marks]
[4 markah]

Answer:

Jawapan:

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NAMA:

KELAS:

Simplify $\frac{(-4p^4q^4) \times 5pq^3}{7pq^2}$.

Permudahkan $\frac{(-4p^4q^4) \times 5pq^3}{7pq^2}$.

[3 marks]
[3 markah]

Answer:

Jawapan:

Given that $s = -1$ and $t = 3$, calculate the value of $\frac{-7s + 4t^3}{9}$.

Diberi $s = -1$ dan $t = 3$, hitung nilai $\frac{-7s + 4t^3}{9}$.

[3 marks]
[3 markah]

Answer:

Jawapan:

Given that $s = -5$ and $t = -4$, calculate the value of $\frac{-3s - 2t^3}{8}$.

Diberi $s = -5$ dan $t = -4$, hitung nilai $\frac{-3s - 2t^3}{8}$.

[3 marks]
[3 markah]

Answer:

Jawapan:

Given that $s = 4$ and $t = 1$, calculate the value of $\frac{s + 5t^3}{3}$.

Diberi $s = 4$ dan $t = 1$, hitung nilai $\frac{s + 5t^3}{3}$.

[3 marks]
[3 markah]

Answer:

Jawapan:

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NAMA:

KELAS:

Hanis paid for 8 packets of sugar at RM m per packet and 10 packets of salt at RM n per packet with RM20. Find his change, in RM.

Hanis membayar 8 paket gula pada harga RM m setiap paket dan 10 paket garam pada harga RM n setiap paket dengan RM20. Cari baki wang yang diterima oleh Hanis, dalam RM.

[3 marks]

[3 markah]

Answer:

Jawapan:

Ahmad paid for 5 packets of sugar at RM s per packet and 7 packets of salt at RM t per packet with RM50. Find his change, in RM.

Ahmad membayar 5 paket gula pada harga RM s setiap paket dan 7 paket garam pada harga RM t setiap paket dengan RM50. Cari baki wang yang diterima oleh Ahmad, dalam RM.

[3 marks]

[3 markah]

Answer:

Jawapan:

Given that $4(x - 5) + 3x + 98 = 4x$, find the value of x .

Diberi $4(x - 5) + 3x + 98 = 4x$, cari nilai bagi x .

[3 marks]

[3 markah]

Answer:

Jawapan:

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NAMA:

KELAS:

Given that $5y - 2 = 4y + 7$, find the value of y .

Diberi $5y - 2 = 4y + 7$, cari nilai bagi y .

[3 marks]
[3 markah]

Answer:

Jawapan:

Given that $3 : 5 = 21 : y$, calculate the value of y .

Diberi $3 : 5 = 21 : y$, hitung nilai y .

[3 marks]
[3 markah]

Answer:

Jawapan:

The ratio of the number of workers in factory P to the number of workers in factory Q is $5 : 3$. If the factory P has 55 workers, calculate the number of workers in factory Q .

Nisbah bilangan pekerja di kilang P kepada kilang Q ialah $5 : 3$. Jika kilang P mempunyai 55 orang pekerja, hitung bilangan pekerja di kilang Q .

[3 marks]
[3 markah]

Answer:

Jawapan:

Given that $4 : 5 = 12 : q$, calculate the value of q .

Diberi $4 : 5 = 12 : q$, hitung nilai q .

[3 marks]
[3 markah]

Answer:

Jawapan:

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NAMA:

KELAS:

Diagram 2 shows two right-angled triangles PQR and RST .
Rajah 2 menunjukkan dua segi tiga bersudut tegak PQR dan RST .

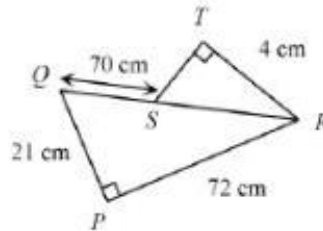


Diagram 2
Rajah 2

Find the length of ST .
Cari panjang ST .

[2 marks]
[2 markah]

Answer:
Jawapan:

Diagram 3 shows a square $ABCD$ and a right-angled triangle ADE .
Rajah 3 menunjukkan sebuah segi empat sama $ABCD$ dan sebuah segi tiga bersudut tegak ADE .

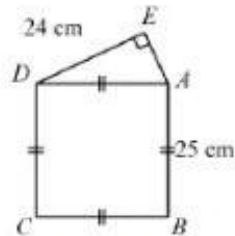


Diagram 3
Rajah 3

Find the area of the whole diagram.
Cari luas seluruh rajah.

[2 marks]
[2 markah]

Answer:
Jawapan:

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NAMA:

KELAS:

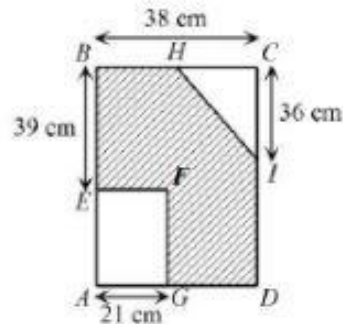


Diagram 4
Rajah 4

Given $AB = 103$ cm and $HI = 39$ cm. Calculate the perimeter the shaded region.
Diberi $AB = 103$ cm dan $HI = 39$ cm. Kira perimeter kawasan berlorek.

[2 marks]
[2 markah]

Answer:
Jawapan:

Diagram 5 shows two right-angled triangles PQR and PRS .
Rajah 5 menunjukkan dua segi tiga bersudut tegak PQR dan PRS .

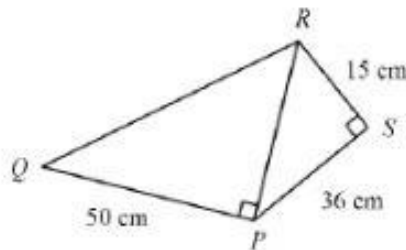


Diagram 5
Rajah 5

Find the perimeter of the whole diagram, correct to one decimal place.
Cari perimeter seluruh rajah, tepat kepada satu tempat perpuluhan.

[2 marks]
[2 markah]

Answer:
Jawapan:

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NAMA:

KELAS:

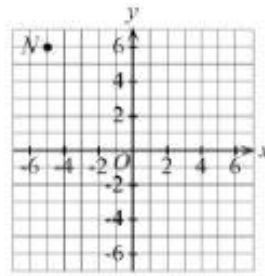


Diagram 26
Rajah 26

On the graph,
Pada graf,

- (a) write the coordinates of point N .
nyatakan koordinat titik N .
- (b) mark the point $M(-5, 2)$.
tandakan titik $M(-5, 2)$.

[2 marks]
[2 markah]

Answer:
Jawapan:

Diagram 53 shows two circles with common centre O .
Rajah 53 menunjukkan dua bulatan yang berpusat O .

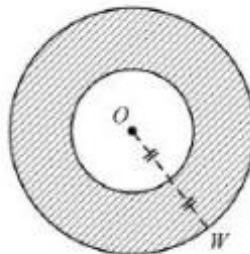


Diagram 53
Rajah 53

Given that $OW = 56$ cm. Find the perimeter of the shaded region. (Use $\pi = \frac{22}{7}$)

Diberi $OW = 56$ cm. Cari perimeter kawasan berlerek. (Guna $\pi = \frac{22}{7}$)

[2 marks]
[2 markah]

Answer:
Jawapan:

**GOLDEN SCHOOL HOLIDAY
TINGKATAN 2**

NAMA:

KELAS:

Given point $P(4, -4)$ and point $Q(-4, 2)$. Calculate the distance between P and Q .
Diberi titik $P(4, -4)$ dan titik $Q(-4, 2)$. Kira jarak di antara P dan Q .

[2 marks]
[2 markah]

Answer:
Jawapan:

Given that $P(-4, 1)$ and $Q(4, 5)$ are two points on a Cartesian plane. Find the coordinates of the midpoint of the straight line PQ .
Diberi $P(-4, 1)$ dan $Q(4, 5)$ ialah dua titik pada sebuah satah cartesian. Cari koordinat titik tengah bagi garis lurus PQ .

[2 marks]
[2 markah]

Answer:
Jawapan:

Given that $P(-2, -4)$ and $Q(-2, 6)$ are two points on a Cartesian plane. Find the coordinates of the midpoint of the straight line PQ .
Diberi $P(-2, -4)$ dan $Q(-2, 6)$ ialah dua titik pada sebuah satah cartesian. Cari koordinat titik tengah bagi garis lurus PQ .

[2 marks]
[2 markah]

Answer:
Jawapan:

**GOLDEN SCHOOL HOLIDAY
TINGKATAN 2**

NAMA:

KELAS:

In Diagram 55, PQR and STU are arcs of circles with a common centre O .
 Dalam Rajah 55, PQR dan STU ialah lengkuk dua bulatan yang berpusat O .

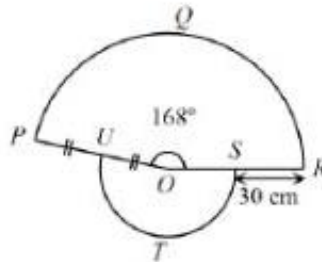


Diagram 55
Rajah 55

Find the perimeter of the diagram. (Use $\pi = \frac{22}{7}$)

Cari perimeter rajah ini. (Guna $\pi = \frac{22}{7}$)

[2 marks]
[2 markah]

Answer:
Jawapan:

In Diagram 56, $PQRS$ is a rectangle. PUS is a semicircle while QRT is a quadrant of a circle.
 Dalam Rajah 56, $PQRS$ ialah sebuah segi empat tepat. PUS ialah sebuah semibulatan manakala QRT ialah satu sukuan bulatan.

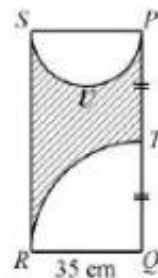


Diagram 56
Rajah 56

Find the area of the shaded region. (Use $\pi = \frac{22}{7}$)

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NAMA:

KELAS:

In Diagram 61, WX and YZ are arcs of two circles with a common centre O .
Dalam Rajah 61, WX dan YZ ialah lengkok dua bulatan yang berpusat O .

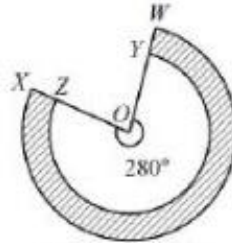


Diagram 61
Rajah 61

Given that $OZ = 27$ cm and $ZX = 9$ cm. Find the area of the shaded region. (Use $\pi = \frac{22}{7}$)

Diberi $OZ = 27$ cm and $ZX = 9$ cm. Cari luas kawasan berlerek. (Guna $\pi = \frac{22}{7}$)

[2 marks]
[2 markah]

Answer:
Jawapan:

Diagram 62 shows a circle with centre O .
Rajah 62 menunjukkan sebuah bulatan yang berpusat O .



Diagram 62
Rajah 62

Given that the radius of the circle = 9 cm and the area of the shaded region = 99 cm². Find the value of r . (Use $\pi = \frac{22}{7}$)

Diberi jejari bulatan = 9 cm dan luas kawasan berlerek = 99 cm². Cari nilai r . (Guna $\pi = \frac{22}{7}$)

[2 marks]
[2 markah]

Answer:
Jawapan:

**GOLDEN SCHOOL HOLIDAY
TINGKATAN 2**

NAMA:

KELAS:

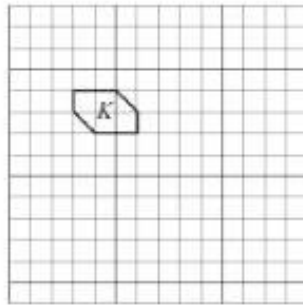


Diagram 65
Rajah 65

Draw the image of the figure K under a translation $\begin{pmatrix} 3 \\ -7 \end{pmatrix}$.

Lukiskan imej bagi bentuk K di bawah translasi $\begin{pmatrix} 3 \\ -7 \end{pmatrix}$.

[2 marks]
[2 markah]

Answer:
Jawapan:

Diagram 66 shows two figures drawn on a square grids with sides of 1 unit.

Rajah 66 menunjukkan dua bentuk yang dilukis pada petak-petak segi empat sama yang bersisi 1 unit.

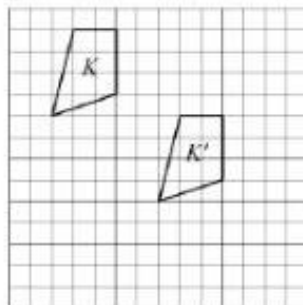


Diagram 66
Rajah 66

Figure K' is the image of figure K under a transformation Q . Describe in full the transformation Q .

Bentuk K' ialah imej bagi bentuk K di bawah suatu penjelmaan Q . Huraikan selengkapnya penjelmaan Q .

[2 marks]
[2 markah]

Answer:
Jawapan:

**GOLDEN SCHOOL HOLIDAY
TINGKATAN 2**

NAMA:

KELAS:

Rajah 80 menunjukkan sebuah piramid tegak.

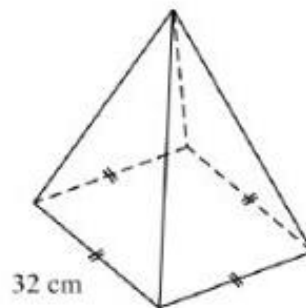


Diagram 80
Rajah 80

Given that the total surface area of the pyramid is $3\,200\text{ cm}^2$.

Find the height, in cm, of the pyramid.

Diberi jumlah luas permukaan piramid ialah $3\,200\text{ cm}^2$.

Cari tinggi piramid itu, dalam cm.

[4 marks]
[4 markah]

Answer:

Jawapan:

Diagram 81 shows a right prism.

Rajah 81 menunjukkan sebuah prisma tegak.

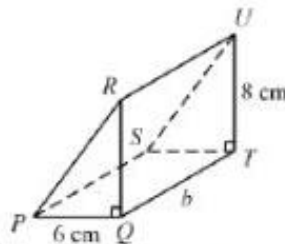


Diagram 81
Rajah 81

Given that the total surface area of the prism is 264 cm^2 , find the value of b , in cm.

Diberi jumlah luas permukaan prisma itu ialah 264 cm^2 , cari nilai b , dalam cm.

[2 marks]
[2 markah]

Answer:

Jawapan: